



November 13, 2024

Dedria Lunderman
City of Pensacola
222 W. Main St.
Pensacola, FL 32502

Dear Ms. Lunderman,

Mansfield Oil Company of Gainesville, Inc. appreciates the opportunity to participate in your Invitation to Bid NO. 25-001 Thirty-Six Month Contract for Motor Fuels

Should you have any questions, feel free to call 1-800-695-6626, or email mocbids@mansfieldoil.com.

Again, thank you for the opportunity to respond to your Invitation to Bid NO. 25-001 Thirty-Six Month Contract for Motor Fuels

Best Regards,
Dan Luther
VP, Government Sales

MANSFIELD OIL COMPANY





Mansfield Oil Company provides innovative solutions to the most demanding energy procurement, supply, and logistics challenges for governments, companies, and organizations across North America. Mansfield offers a broad range of energy solutions including fuels, diesel exhaust fluid, natural gas, and energy price and data management services. We are driven by our six core principles: Teamwork, Conscientiousness, Innovation, Integrity, Personal Service, and Excellence.





Founded over sixty years ago, Mansfield Oil Company operates in all 50 states and all 10 Canadian provinces, with regional operations centers throughout North America. Delivering billions of gallons of fuel and complementary products each year to thousands of diverse customers, Mansfield Oil Company is one of the largest delivered fuel suppliers in the nation and is ranked by Forbes as one of the Top 45 Privately Held Companies in America.



















Mansfield is committed to building “Relationships That Matter.” By consolidating all major fueling methods in your fuel procurement strategy, Mansfield provides cost savings through operational efficiencies and accurate measurement and reporting. Whether fuel is delivered by truck, pipe, rail, or retail station, Mansfield is the industry-leading solution for fuel needs.

We provide customers with a single integrated web-based platform for total visibility across all fueling modes. Optimizing across fueling modes provides better insights into fuel spend which directs improved decisions which lower supply costs and drives operational efficiencies.

We offer a full range of pricing options to best suit the customer’s needs, including:

-  Indexed-based pricing (OPIS, Platts, JOC)
-  Fixed Pricing
-  Consigned Pricing
-  Spot Sales

-  Wholesale/FOB
-  Retail/Fleet cards
-  Cost Plus
-  Consolidated Pricing

| SUPPLY | LOGISTICS | VALUE ADDED PRODUCTS AND SERVICES | |
|--|--|--|--|
|  REFINED FUELS |  FTL |  DEF |  PRICE RISK MANAGEMENT |
|  DEF |  LTL |  ADDITIVES FUEL QUALITY |  WINTERIZED FUEL |
|  BIOFUELS |  MOBILE FUELING |  FLEET CARDS |  FUEL SYSTEMS & SERVICES |
|  NATURAL GAS |  WHOLESALE |  EMERGENCY RESPONSE |  CONSIGNED FUEL |
| | |  FUELALL |  FuelNET |

Mansfield’s diverse portfolio of customers include Fortune 500 companies, major transit authorities, more than 15 state fleets, major package delivery companies, and numerous school boards, counties, and major cities.

**THE CITY OF PENSACOLA, FLORIDA
INVITATION TO BID
BID NO. 25-001**

THIRTY-SIX (36) MONTH CONTRACT FOR MOTOR FUELS

Sealed, complete hardcopy bids **with original (or electronic) signature**, and **one (1) complete and identical electronic copy (PDF) on flash drive or CD** will be received on **November 13, 2024, 2:30 P.M.**, local time, at the following location.

**City Hall (lobby)
222 West Main Street
Pensacola, Florida, 32502
Attention: Purchasing**

The OUTER FACE of the sealed submittal package shall **identify the respondent, the bid title, and the bid number** (whether hand-delivered, mailed, or via UPS/Fedex or other courier service). Submittals received after the closing time will not be accepted. Multiple submittals from the same entity will not be accepted. After the submittal deadline those submittals received will be opened and publicly acknowledged. Interested parties may attend.

Alternatively, electronic bids may be submitted to [Demandstar](#) or [Central Bidding](#). Both sites require registration and varying fees for notifications and document downloads.

Specifications will be posted to the City's website at www.cityofpensacola.com/bids.aspx. Addenda will be posted to the City's website. Bidders are responsible for obtaining addenda and are advised to check the website frequently. There is no cost to view or download documents from the City website.

Bidders shall submit a certified check or bid bond, payable to the City of Pensacola in the amount of **one thousand dollars (\$1,000)** for a period of sixty (60) days.

Any questions concerning the bid should be addressed and submitted in writing **no later** than **10:00 A.M.**, local time, November 4, 2024 to:

**Dedria Lunderman, Purchasing Manager
City of Pensacola
222 W. Main St.
Pensacola, FL 32502
purchasing@cityofpensacola.com**

A bid tabulation or a Notice of Intent to Award will be posted to the City's website at www.cityofpensacola.com/bids.aspx. Bidders are advised to check the website frequently.

The City of Pensacola adheres to the Americans with Disabilities Act and will make reasonable accommodations for access to City services, programs, and activities. Please email ADACoordinator@cityofpensacola.com or call (850) 436-5600. Requests must be made at least 48 hours in advance of the event in order to allow the City time to provide the requested services.

The City of Pensacola reserves the right to accept or reject any or all bids, to award bids on a split-order basis by item number when applicable, to waive any bid informalities and to re-advertise for bids when deemed in the best interest of the City of Pensacola.

Attest:
Ericka L. Burnett
City Clerk

CITY OF PENSACOLA
D. C. Reeves
Mayor

The City of Pensacola provides equal access in employment and public services.

SECURITY NOTICE

Visitors to City Hall are required to stay in the lobby unless otherwise directed.

Late submittals will not be accepted.

GENERAL CONDITIONS

To ensure acceptance, all bidders submitting bids to the City of Pensacola shall be governed by the following conditions, attached specifications, and bid form(s) unless otherwise specified. Bids not submitted on the bid form(s) provided shall be rejected, and bids not complying with these conditions will be subject to rejection. **Multiple submittals from the same entity will not be accepted.**

1. **Approved Equivalents or Equals:** Any manufacturer's names, trade names, brand names, model numbers, etc. listed in the specifications are for information only and not intended to limit competition. The Bidder may offer any brand for which he is an authorized representative, which meets or exceeds the specifications as written. If the bid is based on an "approved equivalent or equal" item(s) or service(s), supportive information in the form of the manufacturer's printed literature or brochures, sketches, diagrams, and/or complete specifications must accompany the bid. The bidder must explain in detail the reasons why the proposed equivalent or equal will meet specifications and not be considered an exception thereto. The City of Pensacola reserves the right to determine acceptance of proposed equivalent or equal item(s) or service(s).
2. **Award of Bids:** Recommendations for award of bids are made to the Mayor or City Council based on the lowest and best responsible bidder meeting all conditions and requirements of the specifications.
3. **Bid Bond:** The particular item(s) or service(s) outlined within the attached specifications require(s) that a certified check, cashier's check, or insurance company's executed bond made payable to the City of Pensacola in the amount of one thousand dollars (\$1,000) accompany your proposal. To ensure its prompt return, please include the company's name and return address on the face of your good faith check or draft. Checks or drafts accepted as good faith deposits will be retained within the City's Finance Department until award and execution of contract is complete, or until a purchase order is issued to the successful proposer. Any proposer withdrawing his proposal after the proposal opening forfeits the right of return of his good faith deposit.
4. **Bid Withdrawal:** No bid may be withdrawn after closing time for receipt of bids for a period of sixty (60) days thereafter. The contract award shall be legally binding at the time of award by Mayor or City Council.
5. **Delivery:** Bid quotations shall include all freight costs to Pensacola, Florida to a point(s) specified herein or specified at the time the purchase order is placed. No title to the item(s) or service(s) ordered nor any risk of loss shall be passed to the City of Pensacola until after receipt of delivery has been acknowledged by an authorized representative of the City of Pensacola.
6. **Discounts:** Terms offering a discount for prompt payment will be considered in

determining the low bid. The discount period shall begin whenever (1) the conditions of the specifications have been fully met and the product or service judged acceptable to the City of Pensacola or (2) a correct invoice and other required documents have been received, whichever is later. Discounts offered for a period of less than thirty (30) days will not be considered in determining low bid.

7. **E-Verify System (Mandatory):** In compliance with the provisions of F.S. 448.095, the parties to this contract and any subcontractors engaged in the performance of this contract hereby certify that they have registered with and shall use the E-Verify system of the United States Department of Homeland Security to verify the work authorization status of all newly hired employees, within the meaning of the statute.
8. **Exceptions to Specifications:** During the drafting of written specifications, a sincere effort is made to describe products and services best suited to the needs of the City; however, in order that consideration be given in evaluating bids, any exceptions to or deviations from the specifications as written must be noted and fully explained. The Mayor is the final authority in determining the acceptability of any exceptions to specifications.
9. **Governing Law:** The laws of the State of Florida shall be the laws applied in the resolution of any action, claim or other proceeding arising out of this contract.
10. **Identical Tie Bids:** In the event that two or more bids are identical in price, preference shall be given to business with Drug-Free Workplace Programs. A Drug-Free Workplace Certificate is enclosed.
11. **Intent of Specifications:** It is the intent of the specifications attached hereto to set forth and describe a certain item(s) or service(s) to be purchased by the City of Pensacola including all materials, equipment, machinery, tools, apparatus, and means of transportation (including freight costs) necessary to provide the item(s) or service(s).
12. **Interpretations:** All questions concerning the specifications or conditions shall be directed in writing to the Purchasing Office at least ten (10) days prior to submittal deadline, unless otherwise instructed on the Invitation to Bid Page. Inquiries must reference the bid item(s) or service(s) and the date of the bid submittal deadline. Interpretations will be made in the form of an addendum placed on the City's website. The City shall not be responsible for any other explanation or interpretation.
13. **Legal Requirements:** All applicable provisions of Federal, State, County, and local laws including all ordinances, rules, and regulations shall govern the development, submittal and evaluation of all bids received in response to these specifications, and shall govern any and all claims between person(s) submitting a bid response hereto and the City of Pensacola, by and through its officers, employees and authorized representatives. A lack of knowledge by the bidder concerning any of the aforementioned shall not constitute a cognizable defense against the legal effect

thereof. The Bidder agrees that it will not discriminate on the basis of race, creed, color, national origin, sex, age or disability.

- 14. Licenses, Registration and Certificates:** Each bidder shall possess at the time of submitting its bid all licenses, registration and certificates necessary to engage in the business of contracting (or special contracting if the work to be performed necessitates a particular type of specialty contractor) in the City of Pensacola. Bidder must also possess all licenses, registrations and certificates necessary to comply with federal, state and local laws and regulations. The awarded bidder shall be registered at the time of contract execution as an active vendor with the Florida Department of State, Division of Corporations (www.sunbiz.org).
- 15. Mistakes:** Bidders are expected to examine the conditions, scope of work, proposal prices, extensions, and all instructions pertaining to the item(s) or service(s) involved. Failure to do so will be at the bidder's risk. Unit prices bid will govern in award.
- 16. Payment of Invoices:** The City of Pensacola issues checks for payment of invoices on the 10th of each month. The signed receiving copy of the purchase order and a correct invoice must have been received by Accounts Payable Activity prior to the 4th of the month. Item(s) or service(s) received on or after the 4th will be processed in the following month. All invoices are payable by the City under the terms of Florida Prompt Payment Act, Florida Statute §218.70. All purchases are subject to availability of funds in the City's budget.
- 17. Permits and Taxes:** The bidder shall procure all permits, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work. Bidders who use public roads of the City of Pensacola, Florida for transport of goods of any kind which said goods were transported from a point without the City of Pensacola, Florida to a point within the City of Pensacola shall obtain a "Use of Streets" permit for a fee not in excess of the license paid for by local licensees engaged in the same business.
- 18. Pre-Bid Meetings:** If a bid requires a mandatory pre-bid meeting, any representative of a firm wishing to submit a bid must sign in with the name of the bidding firm.
- 19. Prohibited Conduct by Bidders:** Upon the publication of any solicitation for sealed bids, requests for proposals, requests for qualifications, or other solicitation of interest or invitation to negotiate by any authorized representative of the City of Pensacola, any party interested in submitting a bid, proposal, or other response reflecting an interest in participating in the purchasing or contracting process shall be prohibited from engaging in any communication **pertaining to formal solicitations** with the Mayor, any member of Pensacola City Council or any member of a selection/evaluation committee for RFPs/RFQs, whether directly or indirectly or through any representative or agent, whether in person, by mail, by facsimile, by telephone, by electronic communications device, or by any other means of communication, until such time as the City has completed all action with respect to the solicitation.

- 20. Protests:** Protests of the plans, specifications, and other requirements of bids and requests for proposals must be received in writing by the Purchasing Office at least ten (10) business days prior to the scheduled bid submittal deadline. A detailed explanation of the reason for the protest must be included. Protests of the intended award of bid or contract must be in writing and received in the Purchasing Office within five (5) business days of the notice of intent to award. A detailed explanation of the protest must be included.
- 21. Public Entity Crimes:** By submitting a proposal each proposer is confirming that the company has not been placed on the convicted vendors list as described in Florida Statute §287.133 (2) (a).
- 22. Public Records:** Any material submitted in response to this Invitation to Bid will become a public document pursuant to Florida Statute §119.07. This includes material which the responding bidder might consider to be confidential or a trade secret. Any claim of confidentiality is waived upon submission, effective after opening the bid pursuant to Florida Statute §119.07.
- 23. Public Records Law:** The Parties shall each comply with Florida Public Records laws. The Parties hereby contractually agree that each Party shall allow public access to all documents, papers, letters, or other public records as defined in Chapter 119, Florida Statutes, made or received by either Party in conjunction with this agreement, or related thereto, unless a statutory exemption from disclosure exists. Notwithstanding any provision to the contrary, it is expressly agreed that Contractor's failure to comply with this provision, within seven (7) days of notice from the City, shall constitute an immediate and material breach of contract for which the City may, in the City's sole discretion, unilaterally terminate this agreement without prejudice to any right or remedy.
- 24. Rejection of Bids:** The City of Pensacola reserves the right to accept or reject any or all bids, to award bids on a split-order basis by item or service number, to waive any minor bid irregularities, technicalities, or informalities, and to re-advertise for bids when deemed in the best interest of the City of Pensacola.
- 25. Sealed Bids:** The specifications and all executed bid forms must be submitted in a sealed envelope. All bids must be signed by an authorized representative of the bidder. In the event more than one bid submittal deadline is scheduled for the same date and time, do not include bids concerning different sets of specifications within the same envelope. **The face of the sealed envelope shall be plainly marked identifying the bidder, the item(s) or service(s) bid and the bid number.** It shall be the sole responsibility of the bidder to assure receipt of bid at the specified location prior to the published time for the bid submittal deadline. No bid will be accepted after closing time for receipt of bids, **nor will any offers by telephone, fax, internet or email be accepted.**
- 26. Tax:** The City of Pensacola is exempt from all State and local sales tax.

27. Termination for Convenience: A contract may be terminated in whole or in part by the City at any time and for any reason in accordance with this clause whenever the City shall determine that such termination is in the best interest of the City. Any such termination shall be effected by the delivery to the contractor at least thirty (30) business days before the effective date of a Notice of Termination specifying the extent to which performance shall be terminated and the date upon which termination becomes effective. An equitable adjustment in the contract price shall be made for the completed service, but no amount shall be allowed for anticipated profit on unperformed services.

28. Unauthorized Aliens: The City of Pensacola shall consider the employment by any contracted vendor of unauthorized aliens a violation of Section 274A of the Immigration and Nationality Act. Such violation shall be cause for unilateral termination of this contract.

29. Venue: Venue for any claim, action or proceeding arising out of this contract shall be Escambia County, Florida.

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| ANY AND ALL SPECIAL CONDITIONS AND SPECIFICATIONS ATTACHED HERETO WHICH VARY FROM THESE GENERAL CONDITIONS SHALL HAVE PRECEDENCE. |
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INSURANCE AND INDEMNIFICATION

Before starting and until termination of supplying products and/or services to the City, the Vendor shall procure and maintain insurance of the types and to the limits specified.

With regard to the Vendor's obligations for products and completed operations, the Vendor shall be responsible for providing and maintaining insurance and contractual agreements (products and completed operations only) for a minimum period of at least three (3) years subsequent to the City's acceptance of the products and/or services.

The term City as used in this section of the Contract is defined to mean the City of Pensacola itself, any subsidiaries or affiliates, elected and appointed officials, employees, volunteers, representatives and agents.

Insurance shall be issued by an insurer whose business reputation, financial stability and claims payment reputation is satisfactory to the City, for the City's protection only. Unless otherwise agreed, the amounts, form and type of insurance shall conform to the following minimum requirements:

WORKER'S COMPENSATION

The Vendor shall purchase and maintain Worker's Compensation Insurance Coverage for all Workers' Compensation obligations as legally required. Additionally, the policy, or separately obtained policy, must include Employers Liability Coverage of at least **\$100,000** each person -accident, **\$100,000** each person - disease, **\$500,000** aggregate - disease.

COMMERCIAL GENERAL, AUTOMOBILE, POLLUTION AND UMBRELLA LIABILITY COVERAGES

The Vendor shall purchase coverage on forms no more restrictive than the latest editions of the Commercial General Liability, Business Auto, and Pollution Liability policies filed by the Insurance Services Office. The City shall not be considered liable for premium payment, entitled to any premium return or dividend and shall not be considered a member of any mutual or reciprocal company. Minimum limits of **\$3,000,000** per occurrence, and per accident, combined single limit for liability must be provided, with umbrella insurance coverage making up any difference between the policy limits of underlying policies coverage and the total amount of coverage required.

Commercial General Liability coverage must be provided, including bodily injury and property damage liability for premises, operations, products and completed operations, and independent contractors. Broad Form Commercial General Liability coverage, or its equivalent shall provide at least, broad form contractual liability applicable to this specific contract, personal injury liability and broad form property damage liability. The policy shall include X,C,U coverages. The coverage shall be written on occurrence-type basis.

Business Auto Policy coverage must be provided, including bodily injury and property damage arising out of operation, maintenance or use of owned, non-owned and hired automobiles and employee non-ownership use. An MCS-90 endorsement for gasoline under the Motor Carrier Act or a similar endorsement acceptable to the City must be provided.

Contractor's Pollution Liability coverage for bodily injury, property damage, fines, penalties, defense, and clean up must be included. Coverage must include both sudden/accidental and non-sudden/gradual.

Umbrella Liability Insurance coverage shall not be more restrictive than the underlying insurance policy coverages. The coverage shall be written on an occurrence-type basis.

CERTIFICATES OF INSURANCE

Required insurance shall be documented in the Certificates of Insurance that provide that the City of Pensacola shall be notified at least thirty (30) days in advance of cancellation, nonrenewal or adverse change or restriction in coverage. The City of Pensacola shall be named on each Certificate as an Additional Insured and this contract shall be listed. If required by the City, the Vendor shall furnish copies of the Vendor's insurance policies, forms, endorsements, jackets and other items forming a part of, or relating to such policies. Certificates shall be on the "Certificate of Insurance" form equal to, as determined by the City an ACORD 25. Any wording in a Certificate which would make notification of cancellation, adverse change or restriction in coverage to the City an option shall be deleted or crossed out by the insurance carrier or the insurance carrier's agent or employee. The Vendor shall replace any canceled, adversely changed, restricted or non-renewed policies with new policies acceptable to the City and shall file with the City Certificates of Insurance under the new policies prior to the effective date of such cancellation, adverse change or restriction. If any policy is not timely replaced, in a manner acceptable to the City, the Vendor shall, upon instructions of the City, cease all operations under the Contract until directed by the City, in writing, to resume operations. The "Certificate Holder" address should read: City of Pensacola, Department of Risk Management, Post Office Box 12910, Pensacola, FL 32521

INSURANCE OF THE VENDOR PRIMARY

The Vendor required coverage shall be considered primary, and all other insurance shall be considered as excess, over and above the Vendor's coverage. The Vendor's policies of coverage will be considered primary as relates to all provisions of the contract.

LOSS CONTROL AND SAFETY

The Vendor shall retain control over its employees, agents, servants and subcontractors, as well as control over its invitees, and its activities on and about the subject premises and the manner in which such activities shall be undertaken and to that end, the Vendor shall not be deemed to be an agent of the City. Precaution shall be exercised at all times

by the Vendor for the protection of all persons, including employees, and property. The Vendor shall make special effort to detect hazards and shall take prompt action where loss control/safety measures should reasonably be expected.

HOLD HARMLESS

The Vendor shall indemnify and hold harmless the City of Pensacola, its officers and employees, from any and all liabilities, damages, losses, and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the Vendor and persons employed or utilized by the Vendor in the performance of this contract. The Vendor's obligation shall not be limited by, or in any way to, any insurance coverage or by any provision in or exclusion or omission from any policy of insurance.

PAY ON BEHALF OF THE CITY

The Vendor agrees to pay on behalf of the City, as well as provide a legal defense for the City, both of which will be done only if and when requested by the City, for all claims as described in the Hold Harmless paragraph. Such payment on the behalf of the City shall be in addition to any and all other legal remedies available to the City and shall not be considered to be the City's exclusive remedy.

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/06/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER Marsh & McLennan Agency LLC 11330 Lakefield Drive Suite 100 Johns Creek, GA 30097-1508 | | CONTACT NAME: Jasleen Kaur PHONE (A/C, No, Ext): - FAX (A/C, No): E-MAIL ADDRESS: Jasleen.Kaur@MarshMMA.com | | | | | | | | | | | | | | | |
|--|--------|--|--|-------------------------------|--------|---|-------|---|-------|---|-------|---|-------|----------------------------------|-------|---|-------|
| INSURED Mansfield Oil Company of Gainesville, Inc. 1025 Airport Parkway, SW Gainesville, GA 30501 | | <table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Starr Indemnity & Liability Company</td> <td>38318</td> </tr> <tr> <td>INSURER B : Zurich American Insurance Company</td> <td>16535</td> </tr> <tr> <td>INSURER C : Allied World Assurance Company (U.S.) I</td> <td>19489</td> </tr> <tr> <td>INSURER D : Harleysville Insurance Company New York</td> <td>10674</td> </tr> <tr> <td>INSURER E : Gemini Insurance Co.</td> <td>10833</td> </tr> <tr> <td>INSURER F : Crum & Forster Specialty Ins. Co.</td> <td>44520</td> </tr> </tbody> </table> | | INSURER(S) AFFORDING COVERAGE | NAIC # | INSURER A : Starr Indemnity & Liability Company | 38318 | INSURER B : Zurich American Insurance Company | 16535 | INSURER C : Allied World Assurance Company (U.S.) I | 19489 | INSURER D : Harleysville Insurance Company New York | 10674 | INSURER E : Gemini Insurance Co. | 10833 | INSURER F : Crum & Forster Specialty Ins. Co. | 44520 |
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COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSR | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS |
|----------|--|-----------|----------|---------------------------------------|-------------------------|-------------------------|---|
| A | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: | | | 1000090701241 | 02/01/2024 | 02/01/2025 | EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$ |
| B | AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> MCS90 <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> CA9948 | | | BAP015277704 | 02/01/2024 | 02/01/2025 | COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ |
| | UMBRELLA LIAB EXCESS LIAB DED RETENTION \$ | | | SEE BELOW | 02/01/2024 | 02/01/2025 | EACH OCCURRENCE \$ AGGREGATE \$ \$ |
| B | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N | N/A | WC015277504 (FL,MA,WI) WC015277604 | 02/01/2024 | 02/01/2025 | <input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000 |
| C | Pollution Liab.- Claims Made | | | 03059391 | 12/23/2020 | 03/01/2024 | \$10,000,000 Each Inc. \$10,000,000 Aggregate |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

INSURER G - AXIS Surplus Ins. Co. - NAIC #26620

INSURER H - RSUI Indemnity Co.. - NAIC #22314

INSURER I - Great American Assurance Co. NAIC #26344

(See Attached Descriptions)

CERTIFICATE HOLDER

CANCELLATION

Informational Use

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

PETER J. KRAUSE

DESCRIPTIONS (Continued from Page 1)

EXCESS AUTO LIABILITY:

Insurer D - Policy #CRA0000052 - \$3,000,000 xs Primary

Insurer E - Policy #GVE100229306 - \$3,000,000 xs \$3,000,000

Insurer F - Policy #SE0128243- \$3,000,000 xs \$6,000,000

Insurer G - Policy #P00100105226502 - \$5,000,000 xs \$9,000,000

EXCESS GENERAL LIABILITY:

Insurer A - Policy #1000095554241 - \$15,000,000 xs Primary

EXCESS EMPLOYERS LIABILITY:

Insurer H - Policy #NHA106463 - \$5,000,000 xs Primary

Insurer I - Policy #EXC5202937- \$5,000,000 xs \$5,000,000

(GL) Additional Insured per form OG183 04/12 - Additional Insured - Where Required Under Contract or Agreement (Primary Coverage)

(GL) Additional Insured per form CG2037 0413 - Additional Insured Owners, Lessees or Contractors - Completed Operations

(GL) Additional Insured Primary & Non-Contributory per form CG2001 0413-Primary and Non-Contributory -Other Insurance Condition

(GL) Waiver of Subrogation per form CG2404 0509 - Waiver of Transfer of Rights of Recovery Against Others To Us

(Auto) Additional Insured per form CA2048 1013 Designated Insured For Covered Autos Liability Coverage

(Auto) Waiver of Subrogation per form CA0444 1013 Waiver of Transfer of Rights of Recovery Against Others to Us (Waiver of Subrogation)

(WC) Waiver of Subrogation per form: WC000313 0484 - Waiver of Transfer of Rights of Recovery Against Others To Us

Excess Liability Follow Form per forms:

Policy #CRA0000052 - Form XLAP7RAR 0122 - Commercial Excess Liability Coverage Form

Policy #GVE100229306 - Form GEMFFXLT 08/2020 - Excess Liability Policy

Policy #SEO128243 - Form CFSICEX 101.0.302 8-22 - Excess Liability Coverage form

Policy #P00100105226502 - Form AXIS 1010402 0417 - AXIS Excess Insurance Policy

Policy #1000095554241 - Form XS-100 1008 - Excess Liability Policy Form

Policy #NHA106463 - Form RSG31001 0507 - Commercial Excess Liability Policy

Policy # EXC5202937 - Form GAI6524 0697 - Excess Liability Coverage Form

INSTRUCTIONS TO BIDDERS

1. AWARD OF CONTRACT

- A. The contract will be awarded as soon as practicable to the lowest responsible bidder, price and other factors considered, provided their bid is reasonable and it is to the interest of the City to accept it.
- B. The City reserves the right to waive any informality in bids received when such waiver is in the interest of the City. In case of error in the extension of prices, the unit price will govern.
- C. The City further reserves the right to accept or reject any or all items of any bid, unless the bidder qualifies such bid by specific limitations; also to make an award to the bidder whose aggregate bid on any combination of bid items is low.

2. DECLARATIONS

The bidder hereby declares that the only person or persons interested in the Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respect fair and in good faith without collusion or fraud.

The bidder further declares that he has examined the site of the work and has informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the plans and specifications for the work and the contractual documents relative thereto, including the Advertisement, Proposal Form, Form of Contract, General Conditions, and all specific conditions; and that he has satisfied himself relative to the work to be performed.

The bidder proposes and agrees, if this Proposal is accepted, that it will not discriminate on the basis of race, creed, color, national origin, sex, age or disability and to contract with the City of Pensacola in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and labor necessary to complete the project.

SCOPE OF SERVICES

1. Intent

The City of Pensacola intends to contract with a qualified vendor(s) for the purchase and delivery of various grades of motor fuels. Award of bids may be made for each type of fuel and delivery method specified.

2. Inspection of Facilities

It is the bidder's responsibility to become fully informed as to where items are to be installed and/or the nature and extent of the work required and its relation to any other work in the area, including possible interference from other site activities. Arrangements for bidder's inspection of facilities may be scheduled through Dean Palag, (850) 435-1897 or dpalag@cityofpensacola.com.

3. Contract Term/Termination

The contract term will be for thirty-six months (36) months commencing upon award.

- A. The contract may be canceled by the awarded vendor, for good cause, upon ninety (90) days prior written notice.
- B. The City retains the right to terminate the contract, with or without good cause, upon thirty (30) days prior written notice. Termination for cause may result in the vendor being found in default and being charged with any and all re-procurement costs.
- C. In the event of termination by either party as provided herein, the awarded vendor shall be paid for services performed through the date of termination.

4. Delivery

No deliveries shall be requested or required on weekends or holidays, unless as required by a bona fide Emergency (as determined by the City).

The contractor shall afford the City the status of "Best Customer" for the duration of this contract and shall ensure delivery to be as ordered by City Representative, but not to exceed forty-eight (48) hours (Normal), twenty-four (24) hours "Bona Fide Emergency" after telephone/facsimile/email notification. The quantity will depend upon the City's need at the time of request. It is preferable that vehicles equipped with meters make delivery. If non-metered vehicles are used, the driver shall leave a metered loading report from the terminal with the designated City Representative. If temperature-corrected billing is used, the loading report shall give all pertinent information. Before unloading of the vehicle begins, the City Representative shall ensure receiving fuel tanks are measured and shall measure tanks after delivery.

All Transport Wagon Deliveries shall be made to the City's Central Garage Complex

located at the 2759 North Palafox (corner of Palafox and Leonard). Delivery to the Central Garage will be made Monday thru Friday between the hours of 7:00 AM and 2:00 PM with offloading completed by 4:00 PM, except as approved otherwise by the City.

Tank Wagon Deliveries shall be made to the following locations:

| | |
|---|--------------------|
| Osceola Golf Course | 300 Tonawanda Dr. |
| Pensacola Energy | 1625 Atwood Dr. |
| Pensacola Int'l Airport Maintenance/Fire Station #7 | 4220 Airfield Road |
| Pensacola Int'l Airport Parking Garage/Electrical Vault | 2430 Airport Blvd |
| Port of Pensacola | 700 South Barracks |

5. Liquidated Damages

Should the awarded vendor fail to complete the required services or make delivery of the commodities or equipment within the time(s) specified in the contract, or within such additional time(s) as may be granted by the City of Pensacola, the City will suffer damage, the amount of which is difficult, if not impossible to ascertain. Therefore, the vendor shall pay to the City, as liquidated damages, the sum of **\$1,000.00** for each calendar day of delay beyond the time limit specified until such reasonable time as may be required for final completion of the work. Such sum is mutually agreed upon as a reasonable and proper amount of damages the City will sustain per diem by failure of the vendor to complete the services or make delivery within the specified time. The costs for liquidated damages shall not be construed as a penalty on the vendor.

6. Force Majeure

Neither party shall be liable for loss or damages suffered as a result of any delay or failure in performance under this contract or interruption of performance resulting directly or indirectly from an act of God, civil disturbance, acts of public enemy, war, riots, insurrection, accidents, fire, explosions, earthquakes, hurricanes, floods, water, wind, lightning strikes, labor disputes, shortages of suitable products, labor or transportation to the extent such events are beyond reasonable control of the party claiming to be excused from liability resulting therefrom.

7. Changes - Service Contracts

The City may at any time by issuance of an executed change order make changes within the general scope of the contract in any of the following areas:

- A. Description of services to be performed.
- B. Time of performance (i.e., hours of the day, days of the week, etc.).
- C. Place of performance of the services.

8. Interim Extension of Performance

After expiration of the full term of this contract, if it is determined that interim performance is required to allow for the solicitation and award of a new contract, the City may unilaterally extend the contract for a maximum period of sixty (60) days. Pricing, delivery and all other terms and conditions of the contract shall apply during this period.

9. Compliance with Occupational Safety and Health

Bidder certifies that all material, equipment, etc., contained in his bid meets all Occupational Safety & Health Administration (OSHA) requirements. Bidder further certifies that, if he is the awarded vendor, and the material, equipment, etc., delivered is subsequently found to be deficient in any OSHA requirement in effect on date of delivery, all costs necessary to bring the material, equipment, etc., into compliance with the aforementioned requirements shall be borne by the vendor.

In compliance with Chapter 442, Florida Statutes, any item delivered under a contract resulting from this bid shall be accompanied by a Material Safety Data Sheet (MSDS). The MSDS shall include the following information:

- A. The chemical name and the common name of the toxic substance.
- B. The hazards or other risks in the use of the toxic substance, including:
 - 1. The potential for fire, explosion, corrosiveness and reactivity;
 - 2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by the exposure to the toxic substance; and
 - 3. The primary route of entry and symptoms of over exposure.
- C. The proper precautions, handling practices, necessary personal protective equipment and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of over exposure.
- D. The emergency procedure for spills, fire, disposal and first aid.
- E. A description in lay terms of the known specified potential health risks posed by the toxic substance intended to alert any person reading this information.
- F. The year and month, if available, that the information was compiled and the name, address and emergency telephone number of the manufacturer responsible for preparing the information.

10. Emergency Services

The contractor resulting from this solicitation is for services that may also be required during EMERGENCY situations such as hurricanes, major fires, etc. Time

is of the essence during these situations and the vendor awarded this contract should be able to be contacted at any time, day or night.

The Bid Form provides for the emergency information to be supplied. Please be sure to include all of this information when returning your bid.

11. Safety Regulations

Equipment shall meet all state and federal safety regulations for grounding of electrical equipment.

12. Codes and Regulations

The awarded vendor shall strictly comply with all federal, state and local building and safety codes.

13. Pricing

The Contractor shall provide on each week day, by noon (Central Time), a copy of the daily OPIS PAD 1 Report for the Loading Terminal to the City of Pensacola Accounts Payable Department. Invoice prices shall be based on the **Daily Price** for all product for all companies at the Pensacola Terminal as reported by the Oil Price Information Service (OPIS) regardless of which terminal is actually used, plus firm markup or discount, the petroleum inspection fee, Florida and local option road use taxes, pollution taxes and all applicable taxes, and “pump off” charge if applicable. No other charges shall be added. **The firm markup or discount includes the vendor's profit, delivery costs, and any other costs the vendor wishes to include.** The firm markup or discount shall not change during the term of the contract. **Deliveries during any calendar day shall be based upon the daily OPIS price for all companies for the specified product.** The contractor shall invoice only for the specified delivery day OPIS price for product ordered on the actual delivery date.

14. Invoicing/Payment

Payments in the full amount for the value of items received and accepted may be requested by the submission of a properly executed invoice with all unit prices extended five places right of the decimal point (\$0.12345) and total rounded to the nearest whole penny. Invoices shall indicate OPIS markup or discount, the petroleum inspection fee, Florida local option and road use taxes, pollution taxes and all applicable taxes and “pump off” if applicable, with all supporting documents if required. No other charges shall be added. Any questions regarding the applicable fuel taxes can be directed to the Department of Revenue (800) 352-3671 or email EMailDOR@dor.state.fl.us.

15. Evaluation/Award

Evaluation of bids shall be based on the firm markup or discount to the Pensacola OPIS daily quoted in the bid section. The City reserves the right to award to the lowest and best responsible bidder on a split-order basis by item number

or award to a single vendor based upon quantities for all items when deemed in the best interest of the City. Discounts to the OPIS average price shall be considered as a negative add-on.

16. Vendor Qualification

The primary benefit to the City in contracting for the purchase of motor fuels is to be assured of deliverability throughout the contract period at fair market price. Therefore, vendor qualification is paramount and the City reserves the right to require post-bid documentation to the degree felt necessary in order to determine the ability of the bidder to meet all contractual demands. This includes, but is not limited to requiring that a "Middle Man" or Jobber submitting a proposal to furnish a letter of agreement from his supplier acknowledging, with approval, the estimated volumes to be furnished during the contract period.

17. Purchasing Agreements with other Government Agencies

The submission of any offer in response to this solicitation constitutes an offer made under the same terms and conditions, for the same contract price, as to other governmental agencies within the offerer's area of responsibility, territory, zone, region, etc., unless otherwise stipulated by the offerer on the bid/proposal form.

Each governmental agency desiring to accept these offers, and which makes an award thereof, shall do so independently of any other governmental agency. Each agency shall be responsible for its own purchases and each shall be liable only for materials ordered and received by it, and no agency assumes any liability by virtue of this offer.

18. Estimated Quantities

Annual purchase quantities are not guaranteed but are **ESTIMATED** from past usage. The City's following purchase quantities are approximated to better enable bidders to determine a competitive bid price for the period of contract.

| Transport Wagon Deliveries (7,000-8500 Gallons) | | | |
|--|----------------|--------------|---------------|
| Item I | Regular | 330,256 Gal. | 42 Deliveries |
| Item II | Diesel Red Dye | 82,116 Gal. | 14 Deliveries |

| Tank Wagon Deliveries (250-2,000 Gallons) | | | |
|--|----------------|-------------|---------------|
| Item III | Regular | 31,300 Gal. | 28 Deliveries |
| Item IV | Diesel Red Dye | 6270 Gal. | 14 Deliveries |

19. Specifications

Gasoline and Diesel Fuel

The **contractor shall provide** daily by noon (Central Time), a copy of the daily OPIS PAD 1 Report for the Loading Terminal to the City Accounts Payable Department, all labor, equipment and transportation of Fuels from Terminal of

embarkation to all specified delivery sites within forty-eight (48) hours after notification (Normal), twenty-four (24) hours (Bona Fide Emergency) by the City. The City shall provide assistance at Delivery Sites to ensure access to tanks and shall sign for all fuel received.

For the purpose of this Bid, deliveries shall be divided into Tank Wagon and Transport Delivery, with the following specifications being applicable. All transport vehicles should be equipped with a transfer pump delivery system (pump-off may be required).

I. Regular Unleaded Gasoline, Transport Wagon

Gasoline, unleaded, antiknock (octane) index minimum 87 (RON+MON)/2, maximum allowable lead 0.05 gram per gallon, per A.S.T.M. specification D4814, complying with State of Florida gasoline inspection laws, (price will exclude state inspection fee and all tax). State inspection fee and all applicable tax to be added to invoice. To be delivered via transport wagon. NO minimum delivery. Billing to be adjusted to 60 degrees F. temperature upon delivery.

II. Diesel Fuel. Red Dye, Grade No. 2 - Ultra Low Sulfur Fuel, Transport Wagon

Oil, diesel fuel, red dye, grade no. 2-D low sulfur fuel (.05 mass % sulfur, 43 cetane minimum), for use in off the road diesel engine, per A.S. T .M. specification D975, complying with Florida Department of Agriculture and Consumer Services standards 5F-2.001, (will exclude all tax). All applicable tax to be added to invoice. To be delivered as ordered via transport wagon. NO minimum delivery. Billing to be adjusted to 60 degrees F. temperature upon delivery.

III. Regular Unleaded Gasoline, Tank Wagon

Gasoline, unleaded, antiknock (octane) index minimum 87 (RON+MON)/2, maximum allowable lead 0.05 gram per gallon, per A.S.T.M. specification D4814, complying with State of Florida gasoline inspection laws, (price will exclude state inspection fee and all tax). State inspection fee and all applicable tax to be added to invoice. To be delivered via tank wagon. NO minimum delivery. Billing to be adjusted to 60 degrees F. temperature upon delivery.

IV. Diesel Fuel. Red Dye, Grade No. 2 - Ultra Low Sulfur Fuel, Tank Wagon

Oil, diesel fuel, red dye, grade no. 2-D ultra low sulfur fuel (.05 mass % sulfur, 43 cetane minimum), for use in off the road diesel engine, per A.S. T .M. specification D975, complying with Florida Department of Agriculture and Consumer Services standards 5F-2.001, (will exclude all tax). All applicable tax to be added to invoice. To be delivered as ordered via tank wagon. NO minimum delivery. Billing to be adjusted to 60 degrees F. temperature upon delivery.

PROPOSAL
BID NO. 25-001

Pensacola

| | | |
|-----|---------------------------------|-------------------------|
| I. | Regular Unleaded Gasoline | \$ <u>-0.0634</u> /gal. |
| II. | Diesel Red Dye Ultra Low Sulfur | \$ <u>-0.1862</u> /gal. |

III. Regular Unleaded Gasoline \$ **No Bid** /gal.

IV. Diesel Red Dye Ultra Low Sulfur \$ **No Bid** /gal.

\$175.00

References - List two companies and contact persons with similar contracts as this that you are currently doing business with.

Roaring Forks Transportation Authority Mike Yang (970)925-8484 procurement@rfta.com

Bona Fide Emergency contact (name & phone number): Kim Bennett (678)450-2092

Office phone number for placing orders: (866)695-6626

☐ City of Pensacola website ☒ Central Bidding ☐ Demandstar

Signature [Signature] Date: 11/12/2024

Company: Mansfield Oil Comany of Gainesville, Inc. Address: 1025 Airpot Parkway SW

Fax: (678)450-2242 State: Georgia Zip: 30501

E-mail: mocbids@mansfieldoil.com

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City of Pensacola Florida

ITB #25-001

The following taxes are not included in the bid differential, and if applicable, will be shown as line items on your invoice:

| | Dyed ULSD #2 | 87 Octane E10 |
|---------------------------|-----------------------|-----------------------|
| Federal Excise Tax | EXEMPT | EXEMPT |
| Federal Superfund | \$0.004048/Per Gallon | \$0.003643/Per Gallon |
| Federal Oil Spill | \$0.002143/Per Gallon | \$0.001929/Per Gallon |
| Federal Lust Fee | \$0.001/Per Gallon | \$0.001/Per Gallon |
| FL Motor Fuel Tax | N/A | \$0.21/Per Gallon |
| FL Inspection Fee | N/A | \$0.00125/Per Gallon |
| FL Pollution Tax | \$0.02071/Per Gallon | \$0.02071/Per Gallon |

Date: October 28, 2024

CITY OF PENSACOLA, FLORIDA
ADDENDUM #1
TO THE INVITATION TO BID

THIRTY-SIX (36) MONTH CONTRACT FOR MOTOR FUELS

BID NO: 25-001

The following items take precedence over the documents for the above named item. All other terms and conditions shall remain the same.

**A SIGNED COPY OF THIS ADDENDUM MUST BE RETURNED
WITH YOUR SUBMITTAL AS ACKNOWLEDGEMENT.**

Company: Mansfield Oil Company of Gainesville, Inc.

Date: 11/12/2024

Authorized:

Representative: Chris Carter
Printed Name

Title: Sr. Manager Bids & Sales Analytics

Signature: 

Q1. Please provide the last bid tabs for this contract or identify where they may be found.

A. It is attached.

Q2. Please provide a Bill of Lading.

A. All FY 2024 invoices and bills of lading are attached.

Q3. What is the size of the City Central Garage tank?

A. Chart of tank sizes is attached.

Q4. Will the City accept automated price letters referencing the OPIS published price instead of the actual OPIS copywritten document?

A. No.

Q5. What is the start date of the contract?

A. It is anticipated that contract(s) will be executed in December.

Q6. Please provide a copy of a transport diesel invoice.

A. All FY 2024 invoices and bills of lading are attached.

- Q7. Please provide a three-month history of orders for transport deliveries by volume.
A. All FY 2024 invoices and bills of lading are attached.
- Q8. Who is the current vendor for transport and tank wagon deliveries respectively?
A. Cougar Oil provides tank wagon and transport wagon deliveries. Petroleum Traders Corporation provides transport wagon deliveries.
- Q9. Please provide prior bid tabulations for the last time the City of Pensacola had a bid for regular gasoline and dyed diesel.
A. It is attached.
- Q10. Please provide invoice(s) and bill(s) of lading example for each fuel type (regular and dyed diesel) for each of the locations below:
a) Central Garage Complex
b) Osceola Golf Course
c) Pensacola Energy
d) Pensacola International Airport Maintenance/Fire Station No. 7
e) Pensacola International Airport Parking Garage/Electrical Vault
f) Port of Pensacola
A. All FY 2024 invoices and bills of lading are attached.
- Q11. There is a Certification of Erosion and Sedimentation Compliance form that it states must be included with submittal, but it does not appear to have any relevance to the scope of work. Is this form necessary and should be included in the bidders' response?
A. The relevance is in case of fuel spillage that might occur.
- Q12. Bidder kindly asks if the City of Pensacola will waive the requirement for bidders to indicate on their invoice the OPIS markup or discount. It is Bidder policy to show the combined total product price and not separate the OPIS base price from the markup amount on the invoice. A copy of the OPIS published price will be provided instead.
A. No.

Date: November 5, 2024

CITY OF PENSACOLA, FLORIDA
ADDENDUM #2
TO THE INVITATION TO BID

THIRTY-SIX (36) MONTH CONTRACT FOR MOTOR FUELS

BID NO: 25-001

The following items take precedence over the documents for the above named item. All other terms and conditions shall remain the same.

**A SIGNED COPY OF THIS ADDENDUM MUST BE RETURNED
WITH YOUR SUBMITTAL AS ACKNOWLEDGEMENT.**

Company: Mansfield Oil Company of Gainesville, Inc.

Date: 11/12/2024

Authorized:

Representative: Chris Carter

Title: Sr. Manager Bids & Sales Analytics

Printed Name

Signature: 

Q1. The PRF states that a complete hard copy and identical electronic PDF must be mailed in, but the bid also mentions an option for online submission. Can a bidder submit online and skip mailing it in?

A. Yes. If bidding electronically, the bid bond must be delivered to the City at the address below:

City Hall (lobby)
222 West Main Street
Pensacola, Florida, 32502
Attention: Purchasing
(or Attention: Dedria Lunderman, Purchasing Manager)

Q2. Do we need to bid on both Transport and Tank Wagon deliveries?

A. No.

Q3. If a bidder chooses to bid on either Transport or Tank Wagon deliveries, must they submit bids for both products in that delivery category?

A. No.

- Q4. Does the City plan to split the award?
A. Award of bids may be made for each type of fuel and delivery method specified.
- Q5. How many decimal places does the City require? The bid states 5, invoices show 6, and the industry standard is 4.
A. The City financial system goes up to five decimal points.
- Q6. Does the City plan on splitting products on a truck for Transport deliveries?
This is up to the vendor.
- Q7. Does the City plan on splitting products on a truck for Tank Wagon deliveries?
A. This is up to the vendor.
- Q8. Has the City ever enforced the \$1,000 delivery penalty?
A. No.
- Q9. If we submit via DemandStar, would a USB drive still be required to be mailed in?
A. No. Only the bid bond would be physically required. See Question Q1.
- Q10. If we submit via DemandStar, what would be the preferred process to submit the bid bond?
A. See Question Q1.
- Q11. Is special access needed for deliveries made to 4220 Airfield Rd? Tank is on the airside of the fence.
A. Vendor calls ahead to be allowed entry, and Maintenance personnel oversee the delivery.
- Q12. Is there any clear diesel requirement?
A. There is no clear diesel requirement.
- Q13. Is the red-dye for off road only?
A. Yes, red-dye is for off road only.

State of Florida
Affidavit Regarding the Use of Coercion for Labor and Services
Pursuant to Florida Statute 787.06(13)

Vendor Name: Mansfield Oil Comany of Gainesville, Inc.

Vendor FEIN: 58-1091383 Phone Number: (800)695-6626

Vendor's Authorized Representative Name and Title: Dan Luther, VP Government Sales

Address: 1025 Airpot Parkway SW

City: Gainesville State: GA ZIP: 30501

Email Address: mocbids@mansfieldoil.com

Section 787.06(13) Florida Statutes requires all nongovernmental entities executing, renewing, or extending a contract with a governmental entity to provide an affidavit signed by an officer or representative of the nongovernmental entity under penalty of perjury that the nongovernmental entity does not use coercion for labor or services.

The undersigned hereby certifies that he/she is an officer or authorized representative of the vendor identified above and that said vendor does not use coercion for labor or services as defined in Section 787.06 Florida Statutes.

Florida Statute 787.06

(2)(a) "Coercion" means:

1. Using or threatening to use physical force against any person;
2. Restraining, isolating, or confining or threatening to restrain, isolate, or confine any person without lawful authority and against her or his will;
3. Using lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied toward the liquidation of the debt, the length and nature of the labor or services are not respectively limited and defined;
4. Destroying, concealing, removing, confiscating, withholding, or possessing any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification document, of any person;
5. Causing or threatening to cause financial harm to any person;
6. Enticing or luring any person by fraud or deceit; or
7. Providing a controlled substance as outlined in Schedule I or Schedule II of s. 893.03 to any person for the purpose of exploitation of that person.

(2)(e) "Labor" means work of economic or financial value.

(2)(h) "Services" means any act committed at the behest of, under the supervision of, or for the benefit of another. The term includes, but is not limited to, forced marriage, servitude, or the removal of organs.

Under penalties of perjury, I declare that I have read the foregoing document and that the facts stated in it are true.

By: _____

AUTHORIZED SIGNATURE

Print Name and Title: Chris Carter, Sr. Manager Bids & Sales Analytics

Date: 11/12/2024

THIS FORM MUST BE INCLUDED IN SUBMITTAL.

**52.209-5 FAR Certification Regarding Debarment, Suspension,
Proposed Debarment, and Other Responsibility Matters**

The Offeror certifies, to the best of its knowledge and belief, that the Offeror and/or any of its Principals:

- A. Are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.
 - B. Have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and
 - C. Are not presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph 1-B of this provision.
2. The Offeror has not, within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.
- A. "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

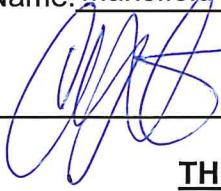
This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

- B. The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- C. A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.
- D. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- E. The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

Company Name: Mansfield Oil Comany of Gainesville, Inc.

Date: 11/12/2024

Authorized
Signature: _____



Printed Name: Chris Carter, Sr. Manager Bids & Sales Analytics

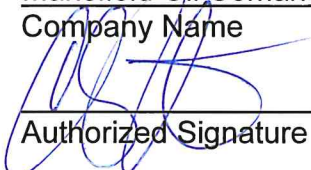
THIS FORM MUST BE INCLUDED IN SUBMITTAL.

52.209-6 FAR Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment

1. The Government suspends or debars Contractors to protect the Government's interests. The Contractor shall not enter into any subcontract in excess of \$25,000 with a Contractor that is debarred, suspended, or proposed for debarment unless there is a compelling reason to do so.
2. The Contractor shall require each proposed first-tier subcontractor, whose subcontract will exceed \$25,000, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
3. A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the Excluded Parties List System). The notice must include the following:
 - A. The name of the subcontractor.
 - B. The Contractor's knowledge of the reasons for the subcontractor being in the Excluded Parties List System.
 - C. The compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion in the Excluded Parties List System.
 - D. The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

Mansfield Oil Company of Gainesville, Inc.

Company Name


Authorized Signature

Chris Carter, Sr. Manager Bids & Sales Analytics

Printed Name

11/12/2024

Date

THIS FORM MUST BE INCLUDED IN SUBMITTAL.

City of Pensacola
Florida

CERTIFICATION
for
EROSION AND SEDIMENTATION COMPLIANCE

All site excavation and site disturbance shall comply with the following federal, state and local regulations related to erosion and sedimentation:

- A. Federal Clean Water Act as amended in 1987
- B. State Florida Statutes, Chapter 373 and 403, and the rules promulgated thereunder
- C. Local Code of the City of Pensacola, Chapter 12-9

By signature of its undersigned authorized representative, the Bidder hereby assures the City of Pensacola that any soil-disturbing activities performed by the Bidder will comply with all applicable federal, state, and local regulations.

The cost of compliance with applicable erosion and sedimentation regulations is estimated by the Bidder to be \$ _____, which cost is included in the amount of the bid.

The specific methods of compliance with applicable federal, state, and local regulations and the associated costs are as follows:


Chris Carter,
Sr. Manager Bids & Sales Analytics

Authorized Official

THIS FORM MUST BE INCLUDED WITH SUBMITTAL.

DRUG-FREE WORKPLACE CERTIFICATE

IDENTICAL TIE BIDS - Pursuant to Florida Statue §287.087, preference shall be given to business with Drug-Free Workplace Programs. Whenever two or more bids which are equal with respect to price, quality, and service are received for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a Drug-Free Workplace Program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a Drug-Free Workplace Program. In order to have a Drug-Free Workplace Program, a business shall:

- 1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the Workplace, the business's policy of maintaining a Drug-Free Workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the Workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6) Make a good faith effort to continue to maintain a drug-free Workplace through implementation of this section.

AS THE PERSON AUTHORIZED TO SIGN THE STATEMENT, I CERTIFY THAT THIS FIRM COMPLIES FULLY WITH THE ABOVE REQUIREMENTS.

Signature



Chris Carter, Sr. Manager Bids & Sales Analytics
Printed Name

THIS FORM MUST BE INCLUDED IN SUBMITTAL.

**CORPORATE RESOLUTION
OF MANSFIELD OIL COMPANY OF GAINESVILLE, INC.**

The undersigned Chief Executive Officer and Sole Director of Mansfield Oil Company of Gainesville, Inc. a Georgia corporation (the "Corporation"), by affixing his signature hereto does hereby consent to and authorize the following action:

WHEREAS, the undersigned desires to authorize Chris Carter, Sr. Manager, Bids and Sales Analytics, to execute any and all contracts and documents necessary to bind the Corporation with respect to bids, contracts and documents relating to any contractual or business matter, including, but not limited to government business solicitations.

NOW THEREFORE, BE IT RESOLVED, that Chris Carter, in his capacity as Sr. Manager, Bids and Sales Analytics is hereby authorized to execute any and all bids, contracts and documents necessary to bind Corporation in the ordinary course of its business, including, but not limited to government solicitations and related documents.

WITNESS, his hand and seals, this 8th day of August, 2019.

MANSFIELD OIL COMPANY
OF GAINESVILLE, INC.

Michael F Mansfield Sr.

By: Michael F Mansfield Sr. (Aug 8, 2019)

Name: Michael F. Mansfield, Sr.

Title: CEO and Sole Director



The Hanover Insurance Company
Citizens Insurance Company of America
Massachusetts Bay Insurance Company

BID BOND

CONTRACTOR:

(Name, legal status and address)

Mansfield Oil Company of Gainesville, Inc.
1025 Airport Parkway, SW
Gainesville, GA 30501

SURETY:

(Name, legal status and principal place of business)

The Hanover Insurance Company
440 Lincoln Street
Worcester, MA 01653

OWNER:

(Name, legal status and address)

The City of Pensacola, FL
222 West Main Street
Pensacola, FL 32502

BOND AMOUNT: \$1,000.00 (One Thousand Dollars and Zero Cents)

PROJECT:

(Name, location or address, and Project Number, if any)

Bid No. 25-001 - Purchase and Delivery of Various Grades of Motor Fuels


The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 13th day of November 20 24

Witness

By: 
Name: Sarah Fountain
Contract Coordinator

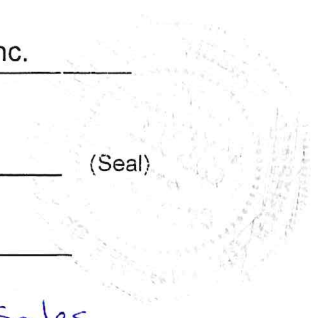
Mansfield Oil Company of Gainesville, Inc.

(Contractor as Principal)

By:  (Seal)

Name: Chris Carter

Title: Sr Manager, Bids & Sales
Analytics



Witness

By: 
Name: Avis Betancourt

The Hanover Insurance Company

By:  (Seal)

Name: Jennifer Anderson

Title: Attorney-in-fact

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWER OF ATTORNEY

THIS Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

KNOW ALL PERSONS BY THESE PRESENTS:

That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, (hereinafter individually and collectively the "Company") does hereby constitute and appoint,

Eugene Y. Northcutt, William D. Smith, Jr., David B. Buruss, Odie E. Wilson, James R. Elrod, Brenda Ray and/or Jennifer Anderson Of Little & Smith, Inc. of Marietta, GA each individually, if there be more than one named, as its true and lawful attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, any and all surety bonds, recognizances, undertakings, or other surety obligations. The execution of such surety bonds, recognizances, undertakings or surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company, in their own proper persons. Provided however, that this power of attorney limits the acts of those named herein; and they have no authority to bind the Company except in the manner stated and to the extent of any limitation stated below:

Any such obligations in the United States, not to exceed Twenty Million and No/100 (\$20,000,000) in any single instance

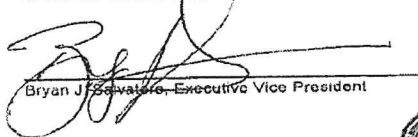
That this power is made and executed pursuant to the authority of the following Resolutions passed by the Board of Directors of said Company, and said Resolutions remain in full force and effect:

RESOLVED: That the President or any Vice President, in conjunction with any Vice President, be and they hereby are authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as it acts, to execute and acknowledge for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons.

RESOLVED: That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or Vice President in conjunction with any Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile. (Adopted October 7, 1981 – The Hanover Insurance Company; Adopted April 14, 1982 – Massachusetts Bay Insurance Company; Adopted September 7, 2001 – Citizens Insurance Company of America and affirmed by each Company on March 24, 2014)

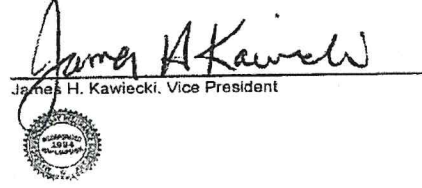
IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by two Vice Presidents, this 18th day of February, 2021.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA


Bryan J. Salvatore, Executive Vice President

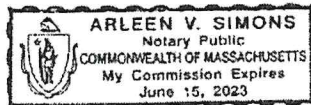


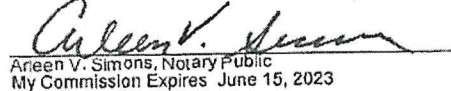
THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA


James H. Kawiecki, Vice President

THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this 18th day of February, 2021 before me came the above named Executive Vice President and Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.




Arleen V. Simons, Notary Public
My Commission Expires June 15, 2023

I, the undersigned Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this 13th day of November, 2024.

CERTIFIED COPY

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

John A. Rowodder, Vice President



Business Continuity Plan

Emergency Response and
Natural Disasters

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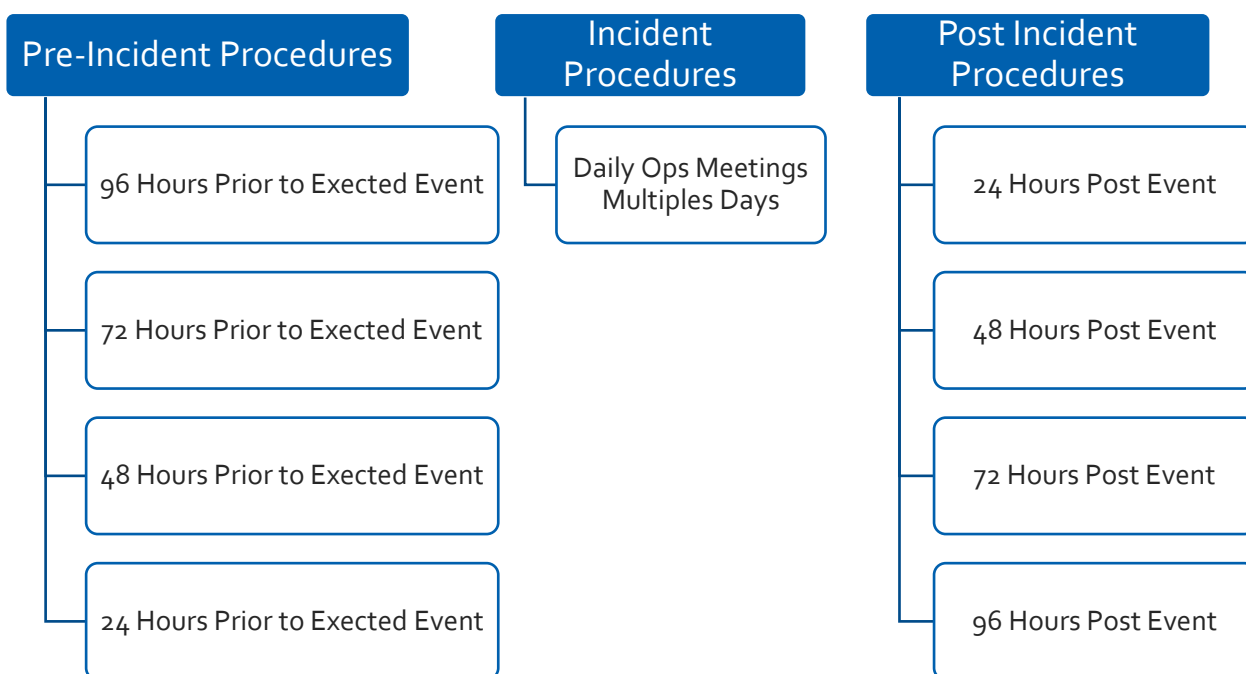
INTRODUCTION

The objective of the *Emergency Response & Natural Disaster Recovery Plan* is to identify the operational procedures at Mansfield Energy in the event of a natural disaster – hurricane, tornado, snowstorm, earthquake, flood, or fire – or other major market disruption.

Certain unforeseen events – acts of terror, refinery or pipeline disruptions, widespread illness, or any incidents requiring “state of emergency” declarations at the state and federal level – may prevent or minimize Mansfield’s ability to timely enact “Pre-Incident” procedures as defined below. However, the subsequent “[Current] Incident” response procedures and “Post Incident” procedures will follow the prescribed respective protocols. These events listed above are all identified herein as **Emergency Response Incidents (ERIs)**.

The procedures are designed to provide clear coordination between individuals and departments for successful operations during ERIs. The effectiveness and efficiency of the plan is dependent on the formation of an Emergency Recovery Operations Team. The team will be involved in three significant stages of the process, exhibited in Figure 1.1 (Pre-Incident procedures, Incident Procedures, and Post Incident Procedures). The guidelines in this document will list specific processes to be followed during the three stages.

Fig. 1.1 – Information Flow



Note: The procedures listed below are intended for refined products business but can be utilized by other groups within the company in the event of any ERI.

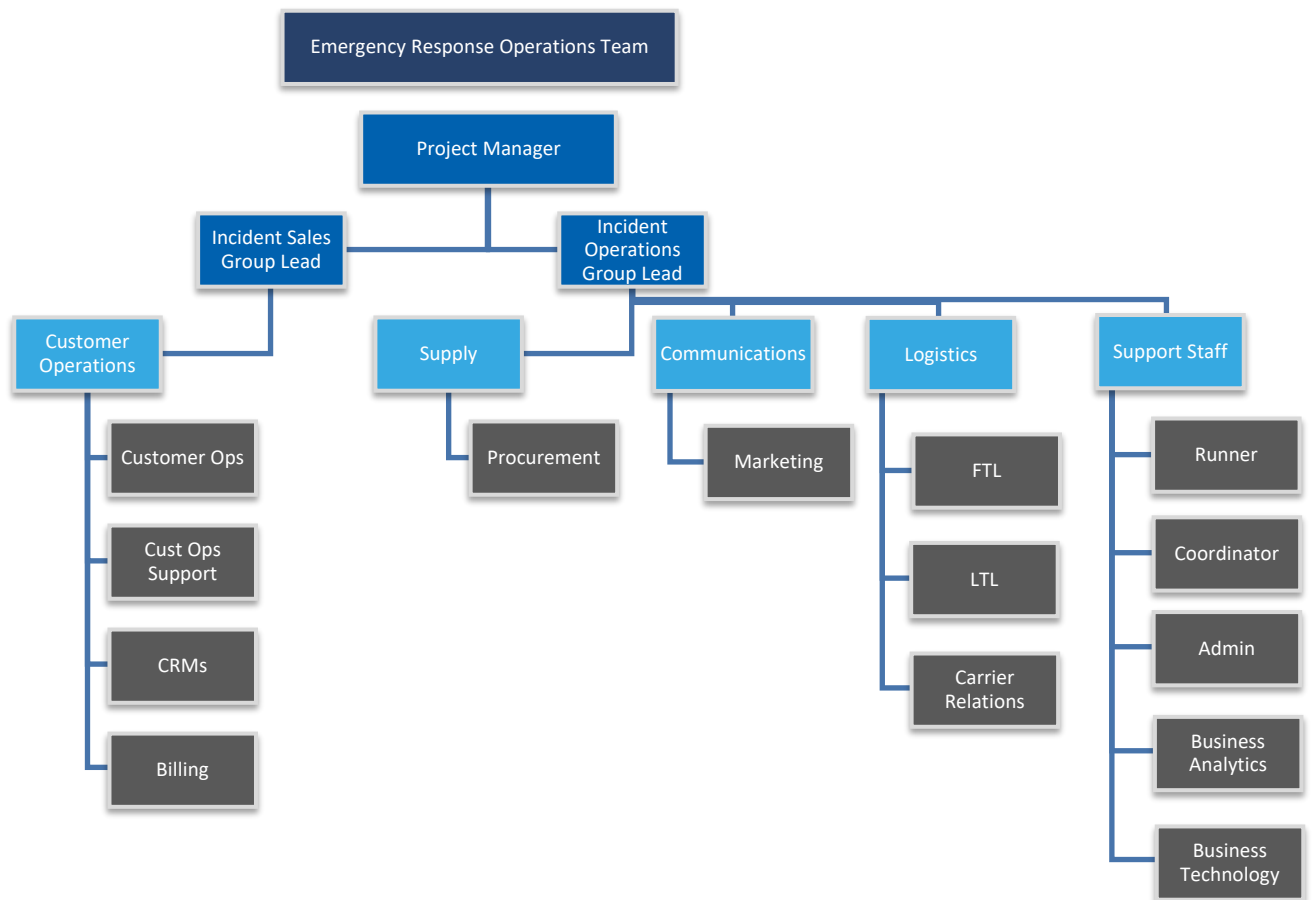
EMERGENCY RESPONSE OPERATIONS TEAM

In the event of an Emergency Response Incident, an Emergency Response Operations Team will be formed to ensure the processes and procedures listed in this document are followed. The team will also attend several mandatory operations meetings per day to facilitate communication throughout the process. The following is a list of individuals or groups that comprise the Emergency Response Operations Team.

- Project Manager (VP, Director, or Senior Manager)
- Sales and Operations Group Leads
- Operations Group (Selected individuals from Customer Service, Dispatch, Account Management team, and Billing)
- Supply Representative (per affected market)
- Logistics (Carrier Relations and LTL representatives)
- Sales Management (Government, Commercial & Industrial, On Demand, Wholesale)
- Marketing Communications Representative
- Various Support Staff

The organizational chart exhibited in Figure 1.2 specifies the Emergency Response Operations Team. At least one representative from each of these groups must attend the daily ERI operations meetings. For specific responsibilities of each group, refer to Appendix A.

Fig. 1.2 – Organizational Chart



Project Manager

A Project Manager (VP, Director, or Senior Manager) will be selected as the individual responsible for the team's coordination and execution during the ERI. The Project Manager will officiate the emergency response process from start to finish. The process is initiated based on the recommendation of the SVP of Supply depending on the potential threat status (Green, Orange, or Red) of the incident. In the event the SVP of Supply is unavailable, the Director of Transportation & Logistics or the COO can initiate the process.

Responsibilities of the Project Manager

- Finalize daily ERI operations summaries and distribute to the executives daily
- Enforce responsibilities and coordination of the Emergency Response Operations Team
- Ensure team goals are met daily

Incident Operations Group Leads

The Incident Operations Group is solely dedicated to managing the operational processes during any ERI event. Their responsibility is to ensure customer service and operational expectations held by both our internal and external customers are not impeded during these unique circumstances. In the event of an ERI, the Project Manager will select an Incident Operations Group Lead as well as an Incident Sales group lead who will work closely together to oversee a small team, consisting of Mansfield supply and distribution personnel, CSRs, and Customer Relationship Managers. The group's responsibilities will include:

Incident Operations Group Lead and Incident Sales Group Lead:

- Schedule and manage daily Incident Operations meetings, record attendance, and submit meeting notes to Project Manager
- Act as a point of contact for the rest of the Emergency Response Operations Team for inquiries regarding ERI deliveries
- A representative from the following groups must ensure that their updates and information flow is directly communicated to the Incident Operations Lead (see Fig. 2.2).
 - Supply
 - Logistics
 - Customer Ops Managers
 - Sales
 - Emergency Response Operations Team

The lead will then facilitate necessary information flow to the appropriate department.

Incident Operations Group Members:

- Reports to Incident Operations Lead
- Handles any operational items related to ERI loads, including:
 - Load confirmation (customer received product)
 - Updating ERP system
 - Identify non-delivered loads (rolled loads)
 - Daily carrier communication regarding loads (responsibility to be shared with Customer Service Teams)

Fig. 2.2 – Information Flow



Supply

Supply is responsible for the procurement, origination, and optimization of all refined products as well as identifying and managing the risk involved in support of the company's sales and delivery efforts. The group's responsibilities will include:

- Check supply and update Incident Operations Group in daily meetings
- Monitor weather or market disruptions and provide updates to Incident Operations Group
- Coordinate long haul supply opportunities
- Manage supply allocations
- Assist carrier relations team with getting out of market drivers carded and cleared to pull off of Mansfield's account at the terminal.
- One representative must attend the daily operations meetings

Logistics

Logistics of refined products at Mansfield are managed by the Carrier Relations and Procurement and Operations LTL departments. The Carrier Relations department is dedicated to managing the strategic execution of Mansfield's Full Truck Load transportation. The LTL Procurement and Operations departments are dedicated to managing the strategic direction of Mansfield's tank wagon (Less than truckload) transportation business. Together, their responsibility is to manage the complete life cycle of the transportation partnerships from partner selection, relationship management, rate procurement and negotiation, risk mitigation, and performance management. Each logistics team, working within their respective networks, will be responsible for:

- Providing a list of available carriers with after-hours contacts
- Arranging long hauls and securing fair freight rates
- Procuring Out of Market trucks that have capacity to move into impacted markets. Out of market trucks could potentially be contracted to specific customers
- Coordinating with Supply to get vendors cleared to pull MOC account and to gauge daily supply and demand for out-of-market trucks
- Reaching out to carriers with critical delivery issues and resolutions
- Attending daily incident operations meetings

Sales & Customer Relationship Management Team

The Sales and Customer Relationship Management Teams are responsible for ensuring Mansfield customers' needs are always understood and met in a timely fashion. During a potential disaster, the Sales Team must ensure the appropriate customer contacts are informed of the impending event and its potential implications that may arise. The Sales Team is also responsible for ensuring the information flow from the Incident Sales Group Lead and CRM's is distributed appropriately to customers and vice versa.

The group's responsibilities will include:

- Educating customers regarding the ERI utilizing information from the Incident Sales Group Lead and Supply Alert Updates
- Informing customers of the implications of the ERI that may arise (increased operations obstacles, delivery delays, change in pricing structures, etc.)
- Escalating customer-related issues with customers
- Relaying information from customers back to the Incident Operations Lead
- Confirming demand requirements and prioritizing delivery scheduling
- Dedicating personnel for the Incident Operations Group and providing backup to cover responsibilities of the individuals that are pulled into the group
- Designating a main point of contact for after-hours calls, which will be utilized by the Incident Operations Lead and their group
- Attending daily emergency response incident operational meetings
- Creating a central message board content with what we're hearing from our customers

During an emergency event, the ERI Team will be responsible for coordinating and scheduling deliveries across all Sales Channels including C&I, Government, On Demand, and Wholesale teams. Doing so will ensure all customers are being prioritized the same and will eliminate multiple Mansfield teams competing over the same resources.

Marketing Communications

The Marketing Communications team is responsible for managing all internal and external communications resulting from the ERI.

This communication will be in the form of, but not limited to:

- Internal emails with ERI updates
- Inclusion of incident updates in the daily FUELS News publication
- Distribution of specific incident updates via the FUELS News distribution email channel
- Specific email notifications to the Customer Notification List
- Reference Appendix G for Supply Alert Codes

Legal Resources - Public Affairs Officer

In the event of a serious natural disaster, the Emergency Recovery Operations Team will communicate closely with Mansfield's legal department and Public Affairs Officer (PAO), who may be chosen at the time of the event. The communication exchange will match the severity of the emergency response incident, the threat status, and supply situation. The PAO representative may be responsible for obtaining government documentation enabling Mansfield to deliver fuel to critical operations customers, prevent Mansfield loads from being commandeered, and ensuring loads are delivered to the originally intended ship to location.

PRE-INCIDENT PROCEDURES

The following procedures commence 96 hours prior to the expected ERI. If the ERI is expected sooner than within 96 hours, the team is required to follow all procedures listed below as soon as possible prior to the event. Following the pre-incident procedures, the team is also expected to follow all current incident and post incident procedures listed in this document.

96 Hours (4 Days) Prior to Expected Event

- Project Manager calls a meeting with the Emergency Response Operations Team to discuss potential impact areas.
- Code Alert Activated: Operations can move to Yellow / Orange without approval. Code Red and Code Blue approval contingent upon supply & transportation constraints. Marketing & Sales will be notified of alert changes so customer communications can be prepared.
- Incident Operations Group is given access to database and trained on updates and expectations throughout the process.
- Customer Operations Teams are instructed to schedule deliveries to inventory managed tanks with less than 10 days of inventory.
- CRMs and CSRs begin calling non-inventory managed sites to encourage early fuel ordering.
- Customer Operations Teams attend ERI training headed by their supervisor. Refer to Appendix C for specific training items.
- Supply is instructed to communicate with terminal personnel for any intelligence around vessel, pipeline, or allocation delays and ongoing updates.
- FTL and LTL Logistics is instructed to contact carriers, update them of the impending event, and secure any required additional dedicated capacity to address demand.
- If necessary, depending on the severity of the ERI, additional resources are flown into the Mansfield Corporate Office (Gainesville, GA) for assistance.

72 Hours (3 Days) Prior to Expected Event

- Emergency Response Operations Team meets to review updates.
- Customer Operations Teams will continue to schedule deliveries to inventory managed tanks with less than 10 days of inventory.
- Incident Operations Group will continue calling non-inventory managed customers to place their orders.
- Supply will continue communication with suppliers and terminals for relevant updates.
- Sales team will have conference calls with customer's corporate contacts and specific sites to review fuel related strategies and contingencies.

48 Hours (2 Days) Prior to Expected Event

- Emergency Response Operations Team meets to review updates.
- Final deliveries for inventory managed sites will be scheduled.
- Current loads are brought into the Pending Loads Report.
- Incident Operations Group will continue calling non-inventory managed customers to place their orders.
- Supply will continue communication with suppliers and terminals for any relevant updates.
- Logistics will continue requesting updates from carriers.
- CRMs to discuss contingency plans with customers should conditions worsen beyond industry capabilities. Alternatives to be explored include fueling at retail sites, alternate products, rationing, etc.

24 Hours (1 Day) Prior to Expected Event

- Emergency Response Operations Team meets to discuss notifications from customers, carriers, and terminals.
- Customer Relationship Manager will continue to send out Fuel Reorder Report showing inventory levels, scheduled deliveries, as well as communicate any delays in loads scheduled.
- Loads are prioritized within the database.
- Supply and Logistics must provide updates around and possible solutions to address delivery challenges.
- Where conditions warrant, terminals in affected region may begin to close and carriers will cease operations, typically relocating assets.
- Final or ongoing deliveries may be made if conditions permit.

INCIDENT OCCURANCE

The daily schedule in Appendix B is designed to promote coordination between the Emergency Response Operations Team. The assignments listed in the schedule must be followed and completed daily by the responsible party within the timeframe given. If necessary, the event occurrence schedule will continue for consecutive days or weeks depending on the threat level and severity of the ERI.

POST-DISASTER PROCEDURES OVERVIEW

24 Hours Post-Event

- Emergency Response Operations Team will re-evaluate the delivery priority list and if significant disruptions to supply remain in the affected region.
- Customer Operations Teams will attempt to contact any inventory managed locations that no longer have readings coming in due to power outages/connectivity issues.
- Customer Operations Teams will begin contacting sites in the affected area and schedule deliveries on a priority basis in accordance with safety considerations and any applicable local, state, or federal mandates.
- Customer Operations Teams will inform applicable sites if there are issues prohibiting delivery to any locations.
- Sales Team will follow up with customers on a corporate level.

48 Hours Post-Event

- Emergency Recovery Operations Team meets to finalize and review the impact of incident.
- Incident Operations Group will continue to work on processing holds for delivery backlogs.
- Customer Operations Team will contact any inventory managed locations that no longer have readings coming in due to power outages/connectivity issues.
- Sales Team will update customer corporate contacts, if necessary, regarding the operational status of terminals and carriers in the affected region, any anticipated disruptions to deliveries, and anticipated timelines until supply and deliveries will return to normal.
- Sales Team will notify customer corporate contacts of any sites with whom the operations team has NOT been able to make contact.
- Deliveries will be scheduled as needed in accordance with safety considerations and any applicable local, state, or federal mandates.

72 Hours Post-Event

- Emergency Response Operations Team will conclude post event meetings.
- Previous procedures will continue until normal operations are resumed: updates to corporate and sites, reevaluation of prioritized deliveries, the scheduling of loads as conditions safely permit, etc.

96 Hours Post-Event

- Customer Service Teams will continue contacting sites for updates or issue resolutions.

POST-MORTEM

A post-mortem meeting must be scheduled by the Project Manager of the Emergency Response Operations Team within two weeks of the incident occurrence. The meeting will include the following topics:

- **Recap of Event** – challenges, successes, operational efficiencies, etc.
- **Necessary Improvements for Future Events** – An individual will be selected to update the Emergency Response Incident and Natural Disaster Business Continuity Plan and communicate internally/externally.
- **Customer Feedback** – A potential internal survey and external Customer Service Survey to be administer to those impacted by the event. The results from the survey will be utilized to review and improve Mansfield's emergency response.

PLAN ENDURANCE

The *Emergency Response and Natural Disaster Recovery Plan* will be distributed to Mansfield Operations personnel multiple times throughout the year. Updated procedures will reside on FuelLink under Operations/Business Continuity. The Emergency Response Operations Team will host an annual mock test of the plan prior to hurricane season to ensure perseverance and necessary operational updates.

The Project Manager will hold quarterly meetings with the Incident Operations Group to ensure proper updates are enforced throughout the year.

The following meeting and communications must be initiated/communicated by the Project Manager:

- Quarterly meetings with the Incident Operations Group. The Project Manager will hand select the group members and notify them of the scheduled meetings.
- Monthly reminders communicated/emailed to Mansfield Operations providing an updated *Emergency Response and Natural Disaster Recovery Plan*.
- Quarterly reminder in the Mansfield Minute weekly publication.
- Monthly reminder to the Customer Operations Teams Supervisors to train CSRs on the process and the Disaster Response Incident Database.
- Complete quarterly tests on the ERI Database to ensure it is working properly.
- Determine date and time of the Internal Readiness Test to be completed each July. The Project Manager will also need to appoint the Internal Readiness Test Leader.

Internal Readiness Test Guidelines

Each year the Project Manager will appoint a group member to initiate and conduct an Internal Readiness Test that will serve as an assessment of preparedness for future live events. The mock incident response should include at least the following protocols in order to well prepare the Emergency Response Operations Team:

- Project Manager will assign an Internal Readiness Test Leader to run the test.
- The Test Leader will announce a surprise meeting for the Emergency Response Operations Team.
- During the meeting, the Test Leader will present a mock “war room” scenario, including relevant details, context, and actionable information. Refer to Appendix F for more information regarding War Room Processes. The following criteria should be included in this meeting’s debrief:
 - Ensure individuals are aware of their roles and responsibilities within the team
 - Review Daily Schedule (Appendix B)
 - Ensure the team knows the Reporting and Tools to be utilized during Emergency Events. If not already trained on the tools, the training will be reviewed.
 - Review processes around updating order status, confirming loads, and marking orders ITG.
 - Review remaining problematic or rolled loads and the procedure for updating notes and changing dates within the system.
 - Review Emergency Labels functionality within the system and how it should be used.
 - Finalize the customer prioritization list and ensure all updates are in place. Use Prioritization functionality within Entinuum as a baseline.
 - Recap the long-haul procedures with Carrier Relations and LTL. Ensure Carrier Relations and LTL are involved in obtaining the freight rates at the time of long hauls. Document and communicate any negotiated rate changes for accurate billing and AP.
 - Review potential obstacles that could arise, such as internet or systems failure. Ensure backup plans are in place.

APPENDIX A Responsibilities of the Emergency Recovery Operations Team

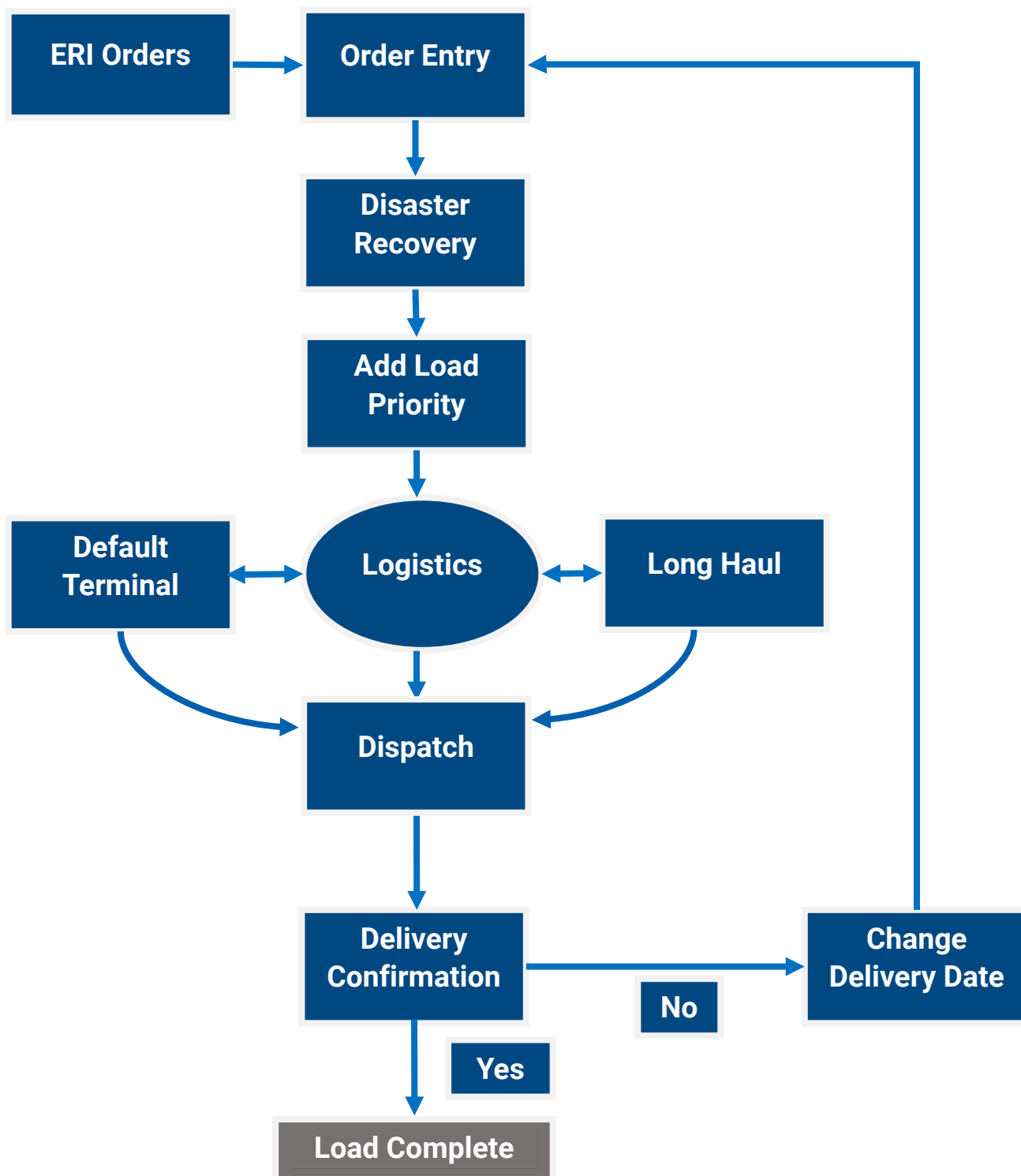
| Team | Actions/Responsibilities |
|---|--|
| Project Manager | Overarching leadership responsible for the team's coordination and execution from start to finish. |
| | When PM says "Go", War Room should be established immediately |
| | The PM will be responsible for coordinating with Marketing team on the Supply Alert communications and any other customer communication. |
| | Coordinate with legal team as needed depending on severity of event. |
| Incident Ops and Incident Sales Group Leads | Responsible for Coordinating with the War Room team to prioritize customer, supply, and truck capacity for next day loads. |
| | Responsible for providing daily scorecard metrics to the Project Manager. |
| | Point of Contact for Internal Departments (Follow Up, Gas Payables, Freight Payables, Operational Accounting, etc.) |
| | Ensures individuals are effectively managing their responsibilities. |
| Dispatch | The regional manager and their team should be included |
| | Each person should be assigned their own set of carriers to manage and should be the only line of communication to that carrier. |
| | Inventory Management for impacted areas should be transitioned to one person who will be in the war room and prioritizing on behalf of IM locations. |
| | This team is responsible for communicating with their carriers deliveries have been made and marking loads in the ground. |
| Supply | The regional manager, scheduler, and analyst should be included |
| | Communicate with War Room Team supply conditions by market for all impacted markets including but not limited to terminal outages and daily allocations. |
| | Explore Long-Haul supply opportunities |
| | Assist carrier relations team with getting drivers carded and cleared to pull off of Mansfield's account at the terminal. |
| Carrier Relations Local | Regional Rep should work with local carriers to ensure commitment to same amount of loads per day |
| | Responsible for getting firm commitment and negotiate paying a bounty fee if necessary. |
| Carrier Relations Dedicated Assets | Responsible for procurement of out of market trucks that are not customer specific. |
| | Responsible for working with out of market trucks to get carded at terminal and coordinate with supply to complete. |
| | Responsible for sending information packet to each of the vendors. |
| | Responsible for clean hand-off of to Dispatch team for logistical communication. |
| LTL Procurement | Responsible for procurement of out of market trucks that are dedicated to specific customers. |
| | Maintain asset tracker with date/time port to port, addresses delivered to, loads pulled and BOL #'s, etc. |
| | Coordinate with Incident Ops Group Lead on customers these trucks are servicing, where they're pulling product, etc. |
| | Coordinate with Supply to clear vendors on our supply |
| | Coordinate with supply to gauge demand for dedicated assets daily |
| | Coordinate with terminals to get vendors carded to pull our supply |
| CRM Representative | Coordinate with Sales to route truck as per request of the customer |
| | Communicate to Sales Incident Ops Group Lead on customer escalations and prioritization. |
| CRM Representative | Should be central point of contact for communication from CRM and Customer Ops team |

| | |
|----------------------------------|---|
| Sales Team Representative | Educate customers regarding the incident utilizing information given from the Incident Operations Lead and Marketing |
| | Inform customers of the implications that may arise (increased operations obstacles, change in pricing structures, etc.) |
| | Should be central point of contact for communication from Sales Team on customer escalations. |
| | Responsible for creating a central message board content with what we're hearing from our customers. |
| Customer Service | Responsible for verifying with customers that deliveries have been made and loads are in the ground. |
| | Send customer escalations coming to their inbox to the East Storm Team Inbox |
| Supporting Staff | Coordinator: Manage "East Storm Team" inbox and assist in answering questions from the business. Also responsible for taking notes during calls to send out via email to the business so we have clear communication daily. |
| | Runner: the runner will coordinate with a small set-up team to ensure system updates happen timely and accurately for reporting purposes. The runner will also assist the coordinator in managing the inbox. |
| | Admin: The admin will assist in attaining needed office materials such as white boards for the War Room. Admin will also coordinate breakfast and/or lunch orders as needed. |
| | Business Analytics: BA team will assist in any reporting needs. |
| | Business Technology: BT team will assist in getting Training room set up for War Room personnel and ensure room technology is functioning properly. |
| | Marketing: Marketing team is responsible for working with the Project Manager on daily Supply Alert communications. |
| | Business Applications and ERP Ops to assist in buy side product and freight set-ups, rolling loads in the system or updating carrier/sourcing on loads, and working with CRM's on sell side set-ups. |
| | Contract Confirmation team to assist in set-ups of new locations or customers delivered to by dedicated assets. |

APPENDIX B Event Occurrence Daily Schedule

| Time | | Database Management/ Meeting | Responsible Party | Assignment |
|-------|------|---------------------------------------|--------------------|---|
| Start | End | | | |
| 800 | 900 | Database Management | Incident Ops Group | Identify missed previous day loads and prepare escalation to Logistics at 9:00 meeting |
| | | | | Call missed loads from prior day and prioritize as 1 loads |
| | | | | All first priority loads in ground must be noted/checked off in database |
| 900 | 930 | Emergency Response Operations Meeting | Sales/CRM Managers | Relay information from customers (outages, back to work updates, continued problems) |
| | | | | Report customer run-outs |
| | | | Incident Ops Lead | Report priority loads that were missed by carriers to logistics |
| | | | | Report action plan for missed loads to team by noon |
| | | | Supply | Update outages, day deals, allocation issues, and guaranteed vs. rack supply |
| | | | FTL Logistics | Recap of Long Hauls currently on books; Update on long haul availability remaining |
| | | | LTL Logistics | Recap of Emergency Response Customer Dedicated Assets (where are we lifting, volume, etc.) |
| | | | Coordinator | Take notes of the meeting and send updates out to the business |
| 930 | 1200 | Database Management | Incident Ops Group | Manage any Issues for today's orders as they arise (retains, runouts, late deliveries) |
| | | | | Work with supply and logistics within war room to prioritize orders for next day |
| | | | Coordinator | Manage East Storm Team inbox and relay updates to Incident Ops Group Leads |
| | | | Runner | Assist Coordinator with inbox as needed and work with volunteers to make necessary system updates. |
| | | | Logistics | Communicate next day loads and confirm capacity with carriers |
| | | | IM | Inventory Management for impacted areas - determining needs looking forward 3-4 days |
| 1200 | 1400 | Database Management | Incident Ops Group | Manage any Issues for today's orders as they arise (retains, runouts, late deliveries) |
| | | | | Work with supply and logistics within war room to prioritize orders for 2 days out |
| | | | Coordinator | Manage East Storm Team inbox and relay updates to Incident Ops Group Leads |
| | | | Runner | Assist Coordinator with inbox as needed and work with volunteers to make necessary system updates. |
| 1400 | 1430 | Emergency Response Operations Meeting | Sales/CRM Managers | Relay information from customers (outages, back to work updates, continued problems) |
| | | | | Report customer run-outs |
| | | | Incident Ops Lead | Report priority loads that were missed by carriers to logistics |
| | | | | Report action plan for missed loads to team by noon |
| | | | Supply | Update outages, day deals, allocation issues, and guaranteed vs. rack supply |
| | | | FTL Logistics | Recap of Long Hauls currently on books; Update on long haul availability remaining |
| | | | LTL Logistics | Recap of Emergency Response Customer Dedicated Assets (where are we lifting, volume, etc.) |
| | | | Coordinator | Take notes of the meeting and send updates out to the business |
| 1500 | 1700 | Daily Metrics | Incident Ops Lead | Put together daily metrics/recap for Project Manager (report runouts, retains, successful deliveries, etc). Use Ops Events and Dispatch Que Power BI. |
| | | Database Management | Incident Ops Group | Finalize next day loads and get final confirmation from the carriers for tomorrow's loads. |
| | | Debrief/ Transition | Incident Ops Lead | Send a summary report to executives and business unit leaders |
| | | | | Update and provide direction to after hours staff |
| 1700 | 1800 | | | Load recap for next day to identify spot and new customer loads requiring prioritization |

APPENDIX C Event Occurrence Process



APPENDIX D Customer Service Incident Response Training

Customer Reminders

- Encourage customers to place orders before any known pending event.
- If the customer has premium tanks, urge them to fill those tanks. The extra fuel will benefit the customer if supply routes are compromised after the impacting incident. You must get permission from the customer first.
- Request additional telephone numbers for the customer to be added in orders – cell phones are preferable in case the customer loses power.
- Let the customer know that we will do our best to deliver fuel to them; but where terminal and logistics instability preclude, do not provide a concrete ETA on deliveries.
- Keep customers updated on the latest weather, traffic reports, and DOT notifications; and convey concerns regarding driver safety that may hinder delivery.
- DO NOT speak to the press under any circumstance. If the press contacts you, please state “I am not at liberty to speak on the matter” and then refer them to our Marketing department if necessary.

Operations/Procedural Reminders

- Top off inventory managed sites that are in any impacted or potentially impacted area.
- If necessary, split loads to fuel as many customers as possible.
- Call customers first and follow up with emails recapping conversations.
- Over-communicate, enter notes in the order, and record everything.
- If you are not sure what to do, ask your supervisor immediately.
- Listen to the carriers. They are in the field and are the first line of information during these times. They will know road conditions, supply allocations, terminal closures, and modified DOT regulations.
- Determine if sites are operational pre-, during, and post-event and see if expected usage will be higher / lower than normal in all 3 portions of the event.

FEMA

- If a load is confiscated by FEMA, try to obtain as much information as possible from the carrier, and inform your supervisor immediately. Make sure to have the order number, driver name, and their cell phone; and ask if the driver knows where he is being rerouted to.
- Your supervisor will communicate this to the Incident Operations Group Lead.

Emergency Fueling

- If a customer's location is selected as an Emergency or Medical fueling station, that location will now have top priority on deliveries. Request a copy of the government (City/County) notification letter from the customer and forward it to your supervisor.
- Your supervisor will communicate this to the Incident Operations Group Lead so that this customer is now a higher priority as an Emergency or Medical fueling station.

Evacuation Routes

- The Incident Operations Group will prioritize loads for retail customers located on evacuation routes if sites are designated as emergency posts.

Location Safety

- If crime increases, it may be necessary to request a police presence from the customer to drop the fuel.

Safety/Tank Reminders

Pre-Disaster Reminders for Customers

- Lock all nozzles to the pumps and tie off all hoses. This will prevent possible damage to the dispensers and increase safety of individuals in the surrounding area.
- Sandbag all pump covers if the strength of a hurricane necessitates.
- Leave the cap lock key in a safe place for driver access. In the event the driver does not have a key to the lock, he may be forced to cut the lock away from the cap.

In the event of a hurricane evacuation, remind customers of the following:

- Stick all tanks for water before evacuating.
- Shut off all power at the main breaker.
- Block all driveways if possible.
- Lock all caps to the drop tubes to prevent fuel theft.

Post-disaster hurricane reminders for customers

- Stick all tanks for water.
- Inform Mansfield immediately if the tanks are compromised or damaged.

Night and Weekend Contacts

The Incident Operations Group Lead will provide on-call names and numbers of key individuals.

- Incident Operations Lead
- Regional Supervisor
- Supply
- Logistics

APPENDIX E Contact Placard

Please contact your Customer Relationship Manager or Sales Representative with any immediate concerns or requests. Your organization's specific contact information can be found on the Contact Information placard that should have been provided as an attachment with this Business Continuity Plan (example below).

CONTACT PLACARD



FUEL ORDERS
For fuel orders and questions about inventory and deliveries, please contact:
Phone: 800-695-6626
Orders Email: MansfieldOrdersEast@mansfieldoil.com
Customer Service Email: WestCSRTeam@mansfieldoil.com
After Hours Email: CSRAfterHours@mansfieldoil.com
*Please order 48 hours in advance of requested delivery time. Same day orders will be handled to the best of our ability.

DEF ORDERS
For DEF orders and questions about deliveries, please contact:
DEF Hotline: 877-591-6377
Email: DEFOrders@mansfieldoil.com

ACCOUNT OPERATION
For billing, service issues, PO's, and miscellaneous requests, please contact:
Customer Relationship Manager:
Phone:
Cell:
Email:
Customer Relationship Manager:
Phone:
Cell:
Email:

ACCOUNT EXECUTIVE
For quotes, contracts, and sales-related questions, please contact:
Account Executive:
Phone:
Cell:
Email:

Thank you for choosing Mansfield. We appreciate your business.

MANSFIELD.ENERGY

Appendix F Supply Alerts

Supply Alerts are sent out daily by Marketing Team to the FUELSNews email distribution channel. Supply Alert Codes are an indicator of market conditions and should be communicated to customers daily during emergency incidents.

Due to the driver shortage and supply chain challenges, Mansfield has implemented a two-tiered alert guide to inform customers of fuel supply disruptions. This new policy will track both the overall severity of a market disruption (Levels 1-5) as well as the operational impact on deliveries within impacted markets (Codes Green, Yellow, Orange, Red, and Blue).

| Mansfield Event Severity Guide | Mansfield Market Delivery Conditions |
|--|--|
| Level 5 - Markets with severely impacted truck capacity and delivery infrastructure, prohibiting the safe delivery of fuel products until conditions improve. | CODE BLUE Delivery time estimates are unavailable due to severe prevailing market conditions |
| Level 4 – Markets with significant impacts to fuel and freight operations, requiring the highest internal focus and preparation. | CODE RED Mansfield requests at least 72-hour notice of new deliveries |
| Level 3 – Markets with impacted fuel and freight operations, requiring elevated internal focus and preparation above Level 2 markets. | CODE ORANGE Mansfield requests at least 48-hour notice of new deliveries |
| Level 2 – Markets where disturbances are being monitored and operational preparations are underway. | CODE YELLOW Mansfield requests at least 24-hour notice of new deliveries |
| Level 1 – Markets are fully operational and unconstrained. | CODE GREEN Normal delivery procedures. Contact your Customer Relationship Manager for details on what this means for your business. |



Department of State

I certify from the records of this office that MANSFIELD OIL COMPANY OF GAINESVILLE, INC. is a corporation organized under the laws of Georgia, authorized to transact business in the State of Florida, qualified on September 17, 1980.

The document number of this corporation is 846977.

I further certify that said corporation has paid all fees due this office through December 31, 1985, and its status is active.

Given under my hand and the
Great Seal of the State of Florida,
at Tallahassee, the Capital, this the
27th day of August, 1985.



CER-101

George Firestone
Secretary of State

**Fuel/Pollutants License**

Issued Pursuant to Chapter 206, Florida Statutes

DR-114
R. 05/17

MANSFIELD OIL COMPANY OF GAINESVILLE INC
1025 AIRPORT PKWY
GAINESVILLE GA 30501-6813

Dear Taxpayer:

Attached below is your Fuel/Pollutants tax license issued pursuant to Chapter 206 of the Florida Statutes. This authorizes the license holder to engage in the fuel/pollutants activity classifications listed on the license. The license must be displayed conspicuously at the principal place of business. The license is only valid for the person/business named and cannot be transferred or assigned to another entity or person. Whenever the license is held by a corporation or business entity, there can be no change of stock, ownership, or equity without prior approval by the Department. The license is only valid through the expiration date listed. If no expiration date is listed, the license is valid until notified by the Department.

**Fuel/Pollutants License**

Issued Pursuant to Chapter 206, Florida Statutes

DR-114
R. 05/17

License Number: 12943592
FEIN Number: 58-1091383

Expiration Date: 12/31/2024

License Activity: Pollutants-Importer
Terminal Supplier
Exporter

MANSFIELD OIL COMPANY OF GAINESVILLE INC
1025 AIRPORT PKWY
GAINESVILLE GA 30501-6813

Location:

License is Not Transferable – It Must be Posted in a Conspicuous Place

This business has complied with the required provisions of Chapter 206, Florida Statutes, and is authorized to engage in fuel activities under the license activity classification listed above. If no expiration date is listed, the license is valid until notified by the Department of Revenue.

2024 FOREIGN PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# 846977

Entity Name: MANSFIELD OIL COMPANY OF GAINESVILLE, INC.

Current Principal Place of Business:

1025 AIRPORT PARKWAY S.W.
GAINESVILLE, GA 30501-6813

Current Mailing Address:

1025 AIRPORT PARKWAY S.W.
GAINESVILLE, GA 30501-6813

FEI Number: 58-1091383

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

CORPORATION SERVICE COMPANY
1201 HAYS STREET
TALLAHASSEE, FL 32301 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

Title PRESIDENT
Name BYRD, JOHN
Address 1025 AIRPORT PKWY SW
City-State-Zip: GAINESVILLE GA 30501

Title SECRETARY
Name PURYEAR, WILLIAM B
Address 1025 AIRPORT PARKWAY SW
City-State-Zip: GAINESVILLE GA 30501

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: WILLIAM B PURYEAR

SECRETARY

04/15/2024

Electronic Signature of Signing Officer/Director Detail

Date

SAFETY DATA SHEET

CITGO No. 2 Diesel Fuel, All Grades, Low Sulfur



Section 1. Identification

| | |
|---|--|
| GHS product identifier | : CITGO No. 2 Diesel Fuel, All Grades, Low Sulfur |
| Chemical name | : Fuels, diesel, No 2 |
| Synonyms | : No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel Fuel No. 2; Grade 2 Distillate Fuel; Hydrodesulfurized Middle Distillate; C9-C16 Petroleum Hydrocarbons |
| Material uses | : Fuel. |
| Code | : Various |
| Supplier's details | : CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com |
| Emergency telephone number (with hours of operation) | : Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only) |

Section 2. Hazards identification

| | |
|---|---|
| OSHA/HCS status | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 |

GHS label elements

Hazard pictograms



Signal word

Hazard statements

- : Danger
- : Flammable liquid and vapor.
Harmful if inhaled.
Causes skin and eye irritation.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Toxic to aquatic life with long lasting effects.

Precautionary statements

General

- : Diesel engine exhaust can cause upper respiratory tract irritation and reversible pulmonary effects. Long-term exposure to diesel engine exhaust may cause cancer.
Do not syphon by mouth.

Section 2. Hazards identification

| | |
|---|---|
| Prevention | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling. |
| Response | : Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity. Do not taste or swallow. Wash thoroughly after handling. |
| Hazards not otherwise classified | : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire or explosion. Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. |

Section 3. Composition/information on ingredients

| | |
|--------------------------------------|--|
| Substance/mixture | : Substance |
| Chemical name | : Fuels, diesel, No 2 |
| Other means of identification | : No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel Fuel No. 2; Grade 2 Distillate Fuel; Hydrodesulfurized Middle Distillate; C9-C16 Petroleum Hydrocarbons |

CAS number/other identifiers

CAS number : 68476-34-6

| Ingredient name | % | CAS number |
|------------------------|-----------|-------------------|
| Benzene, trimethyl- | 1 - 5 | 25551-13-7 |
| Naphthalene | 0.5 - 1.5 | 91-20-3 |
| biphenyl | 0.5 - 1.5 | 92-52-4 |
| Cumene | 0.5 - 1.5 | 98-82-8 |
| Xylene | 0.5 - 1.5 | 1330-20-7 |
| Ethylbenzene | 0.5 - 1.5 | 100-41-4 |

* = Various ** = Mixture *** = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes eye irritation.
- Inhalation** : Harmful if inhaled.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : Corrosive to the digestive tract. Causes burns. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
- Ingestion** : Adverse symptoms may include the following:
stomach pains
nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.
- Specific treatments** : Treat symptomatically and supportively.

Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use caution when applying carbon dioxide in confined spaces.
SMALL FIRE: Steam, CO₂, dry chemical or inert gas (e.g., nitrogen). LARGE FIRE: Use foam, water fog or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, ignition or explosion.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
Diesel engine exhaust

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements. Non equilibrium conditions may increase the fire hazard associated with this product. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards. Carefully review operations that may increase the risks such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Always keep nozzle in contact with the container throughout the loading process. Do NOT fill any portable container in or on a vehicle.
- Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e., loading this material in tanks or shipping compartments that previously contained a dissimilar product).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

Head spaces in tanks and other containers may contain a mixture of air and vapor in the flammable range. Vapor may be ignited by static discharge. Storage area must meet OSHA requirements and applicable fire codes. Additional information regarding the design and control of hazards associated with the handling and storage of flammable and combustible liquids may be found in professional and industrial documents including, but not limited to, the National Fire Protection Association (NFPA) publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77 ("Recommended Practice on Static Electricity") and the American Petroleum Institute (API) Recommended Practice 2003, ("Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents").

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Fuels, diesel, No 2

ACGIH TLV (United States, 2/2010).
Absorbed through skin.

TWA: 100 mg/m³, (measured as total hydrocarbons) 8 hours. Form: Total hydrocarbons

Benzene, trimethyl-

ACGIH TLV (United States, 3/2017).
TWA: 25 ppm 8 hours.

TWA: 123 mg/m³ 8 hours.

Naphthalene

ACGIH TLV (United States). Absorbed through skin.

STEL: 15 ppm 15 minutes.

ACGIH TLV (United States, 3/2017).
Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 52 mg/m³ 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 10 ppm 10 hours.

TWA: 50 mg/m³ 10 hours.

STEL: 15 ppm 15 minutes.

STEL: 75 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 10 ppm 8 hours.

TWA: 50 mg/m³ 8 hours.

biphenyl

OSHA PEL Z2 (United States).

TWA: 0.2 ppm 8 hours.

ACGIH TLV (United States, 3/2017).

TWA: 0.2 ppm 8 hours.

TWA: 1.3 mg/m³ 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 1 mg/m³ 10 hours.

TWA: 0.2 ppm 10 hours.

OSHA PEL (United States, 6/2016).

TWA: 0.2 ppm 8 hours.

TWA: 1 mg/m³ 8 hours.

Section 8. Exposure controls/personal protection

Cumene

NIOSH REL (United States, 10/2016).**Absorbed through skin.**

TWA: 50 ppm 10 hours.

TWA: 245 mg/m³ 10 hours.**ACGIH TLV (United States, 3/2017).**

TWA: 50 ppm 8 hours.

OSHA PEL (United States, 6/2016).**Absorbed through skin.**

TWA: 50 ppm 8 hours.

TWA: 245 mg/m³ 8 hours.

Xylene

ACGIH TLV (United States, 3/2017).

TWA: 100 ppm 8 hours.

TWA: 434 mg/m³ 8 hours.

STEL: 150 ppm 15 minutes.

STEL: 651 mg/m³ 15 minutes.**OSHA PEL (United States, 6/2016).**

TWA: 100 ppm 8 hours.

TWA: 435 mg/m³ 8 hours.

Ethylbenzene

ACGIH TLV (United States, 3/2017).

TWA: 20 ppm 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 100 ppm 10 hours.

TWA: 435 mg/m³ 10 hours.

STEL: 125 ppm 15 minutes.

STEL: 545 mg/m³ 15 minutes.**OSHA PEL (United States, 6/2016).**

TWA: 100 ppm 8 hours.

TWA: 435 mg/m³ 8 hours.

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- : Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Section 8. Exposure controls/personal protection

| | |
|-------------------------------|---|
| Hand protection | : Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Heavy duty, industrial grade chemically resistant gloves constructed of nitrile, neoprene, polyethylene, fluoroelastomer rubber or polyvinyl chloride as approved by glove manufacturer. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Leather gloves are not protective for liquid contact. |
| Body protection | : Avoid skin contact with liquid. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Avoid skin contact with liquid. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Leather boots are not protective for liquid contact. |
| Respiratory protection | : Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If an air purifying respirator is appropriate, use one equipped with cartridges rated for organic vapors. |

Section 9. Physical and chemical properties

Appearance

| | |
|---|---|
| Physical state | : Liquid. |
| Color | : Not available. |
| Odor | : Characteristic. |
| pH | : Not available. |
| Melting point | : -30 to -18°C (-22 to -0.4°F) |
| Boiling point | : 282 to 338°C (539.6 to 640.4°F) |
| Flash point | : Closed cup: ≥52°C (≥125.6°F) [Pensky-Martens.] |
| Evaporation rate | : <1 (butyl acetate = 1) |
| Lower and upper explosive (flammable) limits | : Lower: 0.6% Upper: 6.5% |
| Vapor pressure | : 0.27 kPa (2 mm Hg) [room temperature] |
| Vapor density | : 5 [Air = 1] |
| Relative density | : 0.84 |
| Density lbs/gal | : Estimated 7 lbs/gal |
| Density gm/cm³ | : 0.87 to 0.95 g/cm ³ |
| Gravity, °API | : Estimated 37 @ 60 F |
| Solubility | : Very slightly soluble in the following materials: cold water. |
| Solubility in water | : 0.005 g/l |
| Partition coefficient: n-octanol/water | : >3.3 |
| Auto-ignition temperature | : 254 to 285°C (489.2 to 545°F) |
| Flow time (ISO 2431) | : Not available. |
| Viscosity | : Kinematic (room temperature): 0.03 cm ² /s (3 cSt) |
| Conductivity | : <50 picosiemens/meter (unadditized) |

Section 10. Stability and reactivity

- Reactivity** : Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Do not store with strong oxidizing agents.
- Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|-----------------------|---------|---------------------|----------|
| Benzene, trimethyl-Naphthalene biphenyl | LD50 Oral | Rat | 8970 mg/kg | - |
| | LD50 Oral | Rat | 490 mg/kg | - |
| | LD50 Dermal | Rabbit | >5010 mg/kg | - |
| | LD50 Oral | Rat | 2140 mg/kg | - |
| Cumene | LC50 Inhalation Vapor | Mouse | 10 g/m ³ | 7 hours |
| | LD50 Dermal | Rabbit | 12300 uL/kg | - |
| | LD50 Oral | Rat | 2.9 g/kg | - |
| | LD50 Oral | Rat | 4000 mg/kg | - |
| Xylene | LC50 Inhalation Vapor | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6700 ppm | 4 hours |
| | LD50 Oral | Mouse | 2119 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| Ethylbenzene | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |

Conclusion/Summary : No additional information.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|--------------------------|-------------|
| Benzene, trimethyl-Naphthalene biphenyl | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Cumene | Skin - Mild irritant | Rabbit | - | 495 milligrams | - |
| | Eyes - Mild irritant | Rabbit | - | 100 milligrams | - |
| Xylene | Skin - Severe irritant | Rabbit | - | 24 hours 500 microliters | - |
| | Eyes - Mild irritant | Rabbit | - | 86 milligrams | - |
| Ethylbenzene | Skin - Mild irritant | Rabbit | - | 24 hours 10 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |

Section 11. Toxicological information

| | | | | | |
|--------------|--------------------------|--------|---|-------------------------|---|
| Ethylbenzene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 100 Percent | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams | - |

Skin : No additional information.

Eyes : No additional information.

Respiratory : No additional information.

Sensitization

Not available.

Skin : No additional information.

Respiratory : No additional information.

Mutagenicity

Not available.

Conclusion/Summary : No additional information.

Carcinogenicity

Not available.

Conclusion/Summary : **Diesel exhaust particulate**: Lung tumor and lymphomas were identified in rats and mice exposed to unfiltered diesel fuel exhaust in chronic inhalation studies. Further, epidemiological studies have identified increase incidences of lung cancer in US railroad workers and bladder cancer in bus and truck drivers possibly associated with exposure to diesel engine exhaust. NTP has determined that exposure to diesel exhaust particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen. In addition, NIOSH has identified complete diesel exhaust as a potential carcinogen.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|----------------------------|------|------|--|
| Fuels, diesel, No 2 | - | 3 | - |
| Diesel exhaust particulate | - | 1 | Reasonably anticipated to be a human carcinogen. |
| Naphthalene | - | 2B | Reasonably anticipated to be a human carcinogen. |
| Cumene | - | 2B | Reasonably anticipated to be a human carcinogen. |
| Xylene | - | 3 | - |
| Ethylbenzene | - | 2B | - |

Reproductive toxicity

Not available.

Conclusion/Summary : No additional information.

Teratogenicity

Not available.

Conclusion/Summary : No additional information.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---------------------|------------|-------------------|---|
| Benzene, trimethyl- | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| biphenyl | Category 3 | Not applicable. | Respiratory tract irritation |
| Cumene | Category 3 | Not applicable. | Respiratory tract irritation |
| Ethylbenzene | Category 3 | Not applicable. | Respiratory tract irritation |

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---------------------|------------|-------------------|------------------------------|
| Benzene, trimethyl- | Category 2 | Not determined | central nervous system (CNS) |
| Xylene | Category 2 | Not determined | hearing organs |

Aspiration hazard

| Name | Result |
|---------------------|--------------------------------|
| Benzene, trimethyl- | ASPIRATION HAZARD - Category 1 |
| Cumene | ASPIRATION HAZARD - Category 1 |
| Ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : Harmful if inhaled.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Corrosive to the digestive tract. Causes burns. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination.

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion : Adverse symptoms may include the following:
stomach pains
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Section 11. Toxicological information

| | |
|------------------------------|---|
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|-------------------------------------|--|----------|
| Benzene, trimethyl- | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| Naphthalene | Acute EC50 1.6 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 213 µg/l Fresh water | Fish - Melanotaenia fluviatilis - Larvae | 96 hours |
| biphenyl | Chronic NOEC 0.5 mg/l Marine water | Crustaceans - Uca pugnax - Adult | 3 weeks |
| | Chronic NOEC 1.5 mg/l Fresh water | Fish - Oreochromis mossambicus | 60 days |
| | Acute LC50 360 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 1450 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 0.17 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| Cumene | Chronic NOEC 0.229 mg/l Fresh water | Fish - Oncorhynchus mykiss | 87 days |
| | Acute EC50 2600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 7400 µg/l Fresh water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 10600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Xylene | Acute LC50 2700 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute EC50 90 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 8.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 15700 µg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 19000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 16940 µg/l Fresh water | Fish - Carassius auratus | 96 hours |
| Ethylbenzene | Acute EC50 4600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 6530 µg/l Fresh water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 2930 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 4200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Conclusion/Summary : Not available.

Section 12. Ecological information

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| Fuels, diesel, No 2 | >3.3 | - | low |
| Benzene, trimethyl- | 3.4 to 3.8 | - | low |
| Naphthalene | 3.4 | 36.5 to 168 | low |
| biphenyl | 4.008 | 1900 | high |
| Cumene | 3.55 | 35.48 | low |
| Xylene | 3.12 | 8.1 to 25.9 | low |
| Ethylbenzene | 3.6 | - | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.




Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : D001, D018

Section 14. Transport information

| | DOT Classification | IMDG | IATA |
|-----------------------------------|--|--|--|
| UN number | NA1993 | UN1202 | UN1202 |
| UN proper shipping name | Diesel Fuel | DIESEL FUEL | Diesel Fuel |
| Transport hazard class(es) | 3  | 3  | 3  |
| Packing group | III | III | III |
| Environmental hazards | No. | No. | No. |

Additional information

Section 14. Transport information

DOT Classification

: This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.

Reportable quantity 11223.3 lbs / 5095.4 kg [1479.2 gal / 5599.3 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Limited quantity Yes.

Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242.

Quantity limitation Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.

Special provisions 144, B1, IB3, T4, TP1, TP29

Remarks 49 CFR 173.150 (f)(1) states that a flammable liquid with a flash point at or above 38°C (100°F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft except where other means of transportation is impracticable.

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

IMDG

: **Emergency schedules** F-E, S-E

Special provisions 363

IATA

: **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations

: **United States inventory (TSCA 8b):** All components are listed or exempted.

Clean Water Act (CWA) 307: naphthalene; ethylbenzene; toluene; benzene

Clean Water Act (CWA) 311: naphthalene; xylene; ethylbenzene; toluene; benzene

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

SARA 302/304

Composition/information on ingredients

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2B
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2
ASPIRATION HAZARD - Category 1
HNOC - Corrosive to digestive tract
HNOC - Static-accumulating flammable liquid

Composition/information on ingredients

Section 15. Regulatory information

| Name | % | Classification |
|----------------------------|-----------|--|
| Fuels, diesel, No 2 | >99 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Corrosive to digestive tract HNOC - Static-accumulating flammable liquid |
| Diesel exhaust particulate | 1 - 5 | CARCINOGENICITY (inhalation) - Category 2 |
| Benzene, trimethyl- | 1 - 5 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2 ASPIRATION HAZARD - Category 1 |
| Naphthalene | 0.5 - 1.5 | FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 |
| biphenyl | 0.5 - 1.5 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Cumene | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 |
| Xylene | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 |
| Ethylbenzene | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 |

SARA 313

| | Product name | CAS number | % |
|---------------------------------|--------------|------------|----|
| Form R - Reporting requirements | naphthalene | 91-20-3 | <1 |
| | ethylbenzene | 100-41-4 | <1 |
| Supplier notification | naphthalene | 91-20-3 | <1 |
| | ethylbenzene | 100-41-4 | <1 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: The following components are listed: ethyltoluene; trimethylbenzene

Section 15. Regulatory information

- New York** : The following components are listed: Naphthalene; Cumene; Benzene, 1-methylethyl-; Ethylbenzene
- New Jersey** : The following components are listed: ETHYLTOLUENES; BENZENE, ETHYLMETHYL-; TRIMETHYL BENZENE (mixed isomers); BENZENE, TRIMETHYL-; NAPHTHALENE; MOTH FLAKES; cumene; ethylbenzene
- Pennsylvania** : The following components are listed: ethyltoluene; trimethylbenzene; NAPHTHALENE; cumene; ethylbenzene

California Prop. 65 Clear and Reasonable Warnings (2018)

⚠ WARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Diesel exhaust particulate, Naphthalene, Cumene, Ethylbenzene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | % | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|----------------------------|------|--------|--------------|---------------------------|---------------------------------|
| Diesel exhaust particulate | <3 | Yes. | No. | - | - |
| naphthalene | <1 | Yes. | No. | Yes. | - |
| cumene | <1 | Yes. | No. | - | - |
| ethylbenzene | <1 | Yes. | No. | Yes. | - |
| toluene | <0.1 | No. | Yes. | - | Yes. |
| benzene | <0.1 | Yes. | Yes. | Yes. | Yes. |

International regulations

Inventory list

- United States** : All components are listed or exempted.
- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS):** All components are listed or exempted.
Japan inventory (ISHL): Not determined.
- Malaysia** : Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.
- Viet Nam** : Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | Justification |
|--|--------------------|
| FLAMMABLE LIQUIDS - Category 3 | Expert judgment |
| ACUTE TOXICITY (inhalation) - Category 4 | Expert judgment |
| SKIN IRRITATION - Category 2 | Expert judgment |
| EYE IRRITATION - Category 2B | Expert judgment |
| CARCINOGENICITY - Category 2 | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2 | Calculation method |
| ASPIRATION HAZARD - Category 1 | Expert judgment |
| AQUATIC HAZARD (LONG-TERM) - Category 2 | Expert judgment |

History

Date of printing : 7/31/2018

Date of issue/Date of revision : 7/31/2018

Date of previous issue : 4/16/2018

Version : 4

Key to abbreviations : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations

References : Not available.

☑ Indicates information that has changed from previously issued version.

Notice to reader

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CITGO is a registered trademark of CITGO Petroleum Corporation

SAFETY DATA SHEET

CITGO Gasolines, All Grades Unleaded



Section 1. Identification

| | |
|---|--|
| GHS product identifier | : CITGO Gasolines, All Grades Unleaded |
| Synonyms | : Unleaded Gasolines; Conventional Unleaded Gasoline with Ethanol; Unleaded Gasoline with Ethanol; Reformulated Unleaded Gasoline with Ethanol; Motor Gasolines; Petrol; Automobile Motor Fuels; Finished Gasolines; Gasoline, Regular Unleaded; Gasoline, Mid-grade Unleaded; Gasoline, Premium Unleaded; Reformulated Gasolines (RFG); Reformulated Motor Fuels; Oxygenated Motor Spirits; Gasoline, Regular Reformulated; Gasoline, Mid-grade Reformulated; Gasoline, Premium Reformulated; RBOB; GTAB; Arizona Clean Burning Gasoline (CBG); CARB Gasoline with Ethanol. |
| Material uses | : Fuel. |
| Code | : Various |
| MSDS # | : UNLEAD |
| Supplier's details | : CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com |
| Emergency telephone number (with hours of operation) | : Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only) |

Section 2. Hazards identification

| | |
|---|---|
| OSHA/HCS status | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), hearing organs) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 |

GHS label elements

Hazard pictograms



Signal word

: Danger

Section 2. Hazards identification

| | |
|---|---|
| Hazard statements | <ul style="list-style-type: none"> : Highly flammable liquid and vapor. Causes skin and eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause damage to organs. (central nervous system (CNS)) May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), hearing organs) Very toxic to aquatic life with long lasting effects. |
| <u>Precautionary statements</u> | |
| General | : Do not syphon by mouth. |
| Prevention | <ul style="list-style-type: none"> : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. |
| Response | <ul style="list-style-type: none"> : Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | <ul style="list-style-type: none"> : Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity. Avoid contact with skin and clothing. Wash thoroughly after handling. |
| Hazards not otherwise classified | <ul style="list-style-type: none"> : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire or explosion. Prolonged or repeated contact may dry skin and cause irritation. Repeated or prolonged overexposure to certain chemicals in this product may exacerbate the hearing loss effects associated with noise exposure. |

Section 3. Composition/information on ingredients

| | |
|--------------------------------------|--|
| Substance/mixture | : Substance |
| Other means of identification | <ul style="list-style-type: none"> : Unleaded Gasolines; Conventional Unleaded Gasoline with Ethanol; Unleaded Gasoline with Ethanol; Reformulated Unleaded Gasoline with Ethanol; Motor Gasolines; Petrol; Automobile Motor Fuels; Finished Gasolines; Gasoline, Regular Unleaded; Gasoline, Mid-grade Unleaded; Gasoline, Premium Unleaded; Reformulated Gasolines (RFG); Reformulated Motor Fuels; Oxygenated Motor Spirits; Gasoline, Regular Reformulated; Gasoline, Mid-grade Reformulated; Gasoline, Premium Reformulated; RBOB; GTAB; Arizona Clean Burning Gasoline (CBG); CARB Gasoline with Ethanol. |

CAS number/other identifiers

Section 3. Composition/information on ingredients

| Ingredient name | % | CAS number |
|-----------------------------|--------|------------|
| Pentanes | <20 | 109-66-0 |
| Toluene | <20 | 108-88-3 |
| Xylene | <20 | 1330-20-7 |
| Hexanes, mixture of isomers | <15 | * |
| Heptane | <15 | 142-82-5 |
| Ethanol | 0 - 10 | 64-17-5 |
| Butane | 0 - 10 | 106-97-8 |
| benzene | <4.9 | 71-43-2 |
| Ethylbenzene | <4 | 100-41-4 |
| Cumene | <4 | 98-82-8 |
| n-hexane | <3 | 110-54-3 |
| Cyclohexane | <3 | 110-82-7 |
| 1,2,4-trimethylbenzene | <2 | 95-63-6 |
| Naphthalene | <2 | 91-20-3 |

* = Various ** = Mixture *** = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Breathing high concentrations can cause irregular heartbeats which can be fatal.
- Skin contact** : Causes skin irritation. Defatting to the skin.

Section 4. First aid measures

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Breathing high concentrations can cause irregular heartbeats which may be fatal. Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination. Repeated or prolonged overexposure to certain chemicals in this product may exacerbate the hearing loss effects associated with noise exposure. Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion : Adverse symptoms may include the following:
nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : This material (or a component) may sensitize the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

Specific treatments : Treat symptomatically and supportively.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use caution when applying carbon dioxide in confined spaces.
SMALL FIRE: Steam, CO₂, dry chemical or inert gas (e.g., nitrogen). LARGE FIRE: Use foam, water fog or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, ignition or explosion.

Unsuitable extinguishing media : Do not use water jet.

Section 5. Fire-fighting measures

| | |
|---|--|
| Specific hazards arising from the chemical | : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |

Methods and materials for containment and cleaning up

| | |
|--------------------|--|
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Use only as a motor fuel. Do not syphon by mouth. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Non equilibrium conditions may increase the fire hazard associated with this product. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards. Carefully review operations that may increase the risks such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Always keep nozzle in contact with the container throughout the loading process. Do NOT fill any portable container in or on a vehicle.

Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e., loading this material in tanks or shipping compartments that previously contained a dissimilar product).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

Head spaces in tanks and other containers may contain a mixture of air and vapor in the flammable range. Vapor may be ignited by static discharge. Storage area must meet OSHA requirements and applicable fire codes. Additional information regarding the design and control of hazards associated with the handling and storage of flammable and combustible liquids may be found in professional and industrial documents including, but not limited to, the National Fire Protection Association (NFPA) publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77 ("Recommended Practice on Static Electricity") and the American Petroleum Institute (API) Recommended Practice 2003, ("Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents").

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Pentanes

NIOSH REL (United States, 10/2013).

TWA: 120 ppm 10 hours.

TWA: 350 mg/m³ 10 hours.

CEIL: 610 ppm 15 minutes.

CEIL: 1800 mg/m³ 15 minutes.

ACGIH TLV (United States, 3/2016).

TWA: 1000 ppm 8 hours.

OSHA PEL (United States, 6/2016).

TWA: 1000 ppm 8 hours.

TWA: 2950 mg/m³ 8 hours.

Toluene

OSHA PEL Z2 (United States, 2/2013).

TWA: 200 ppm 8 hours.

CEIL: 300 ppm

AMP: 500 ppm 10 minutes.

NIOSH REL (United States, 10/2013).

TWA: 100 ppm 10 hours.

TWA: 375 mg/m³ 10 hours.

STEL: 150 ppm 15 minutes.

STEL: 560 mg/m³ 15 minutes.

ACGIH TLV (United States, 3/2016).

TWA: 20 ppm 8 hours.

Xylene

ACGIH TLV (United States, 3/2016).

TWA: 100 ppm 8 hours.

TWA: 434 mg/m³ 8 hours.

STEL: 150 ppm 15 minutes.

STEL: 651 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 100 ppm 8 hours.

TWA: 435 mg/m³ 8 hours.

Hexanes, other isomers

ACGIH TLV (United States).

TWA: 500 ppm 8 hours.

STEL: 1000 ppm 15 minutes.

Heptane

ACGIH TLV (United States, 3/2016).

TWA: 400 ppm 8 hours.

TWA: 1640 mg/m³ 8 hours.

STEL: 500 ppm 15 minutes.

STEL: 2050 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2013).

TWA: 85 ppm 10 hours.

TWA: 350 mg/m³ 10 hours.

CEIL: 440 ppm 15 minutes.

CEIL: 1800 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 500 ppm 8 hours.

TWA: 2000 mg/m³ 8 hours.

Ethanol

ACGIH TLV (United States).

TWA: 1000 ppm 8 hours.

ACGIH TLV (United States, 3/2016).

STEL: 1000 ppm 15 minutes.

NIOSH REL (United States, 10/2013).

TWA: 1000 ppm 10 hours.

TWA: 1900 mg/m³ 10 hours.

OSHA PEL (United States, 6/2016).

TWA: 1000 ppm 8 hours.

TWA: 1900 mg/m³ 8 hours.

Butane

ACGIH TLV (United States).

TWA: 800 ppm 8 hours.

NIOSH REL (United States, 10/2013).

Section 8. Exposure controls/personal protection

Benzene

TWA: 800 ppm 10 hours.
 TWA: 1900 mg/m³ 10 hours.
ACGIH TLV (United States, 3/2015).
 STEL: 1000 ppm 15 minutes.
ACGIH TLV (United States, 3/2016).
Absorbed through skin.
 TWA: 0.5 ppm 8 hours.
 TWA: 1.6 mg/m³ 8 hours.
 STEL: 2.5 ppm 15 minutes.
 STEL: 8 mg/m³ 15 minutes.
NIOSH REL (United States, 10/2013).
 TWA: 0.1 ppm 10 hours.
 STEL: 1 ppm 15 minutes.
OSHA PEL (United States, 6/2016).
 TWA: 1 ppm 8 hours.
 STEL: 5 ppm 15 minutes.
OSHA PEL Z2 (United States, 2/2013).
 TWA: 10 ppm 8 hours.
 CEIL: 25 ppm
 AMP: 50 ppm 10 minutes.

Ethylbenzene

ACGIH TLV (United States, 3/2016).
 TWA: 20 ppm 8 hours.
NIOSH REL (United States, 10/2013).
 TWA: 100 ppm 10 hours.
 TWA: 435 mg/m³ 10 hours.
 STEL: 125 ppm 15 minutes.
 STEL: 545 mg/m³ 15 minutes.
OSHA PEL (United States, 6/2016).
 TWA: 100 ppm 8 hours.
 TWA: 435 mg/m³ 8 hours.

Cumene

NIOSH REL (United States, 10/2013).
Absorbed through skin.
 TWA: 50 ppm 10 hours.
 TWA: 245 mg/m³ 10 hours.
ACGIH TLV (United States, 3/2016).
 TWA: 50 ppm 8 hours.
OSHA PEL (United States, 6/2016).
Absorbed through skin.
 TWA: 50 ppm 8 hours.
 TWA: 245 mg/m³ 8 hours.

n-Hexane

NIOSH REL (United States, 10/2013).
 TWA: 50 ppm 10 hours.
 TWA: 180 mg/m³ 10 hours.
ACGIH TLV (United States, 3/2016).
Absorbed through skin.
 TWA: 50 ppm 8 hours.
OSHA PEL (United States, 6/2016).
 TWA: 500 ppm 8 hours.
 TWA: 1800 mg/m³ 8 hours.

Cyclohexane

ACGIH TLV (United States, 3/2016).
 TWA: 100 ppm 8 hours.
NIOSH REL (United States, 10/2013).
 TWA: 300 ppm 10 hours.
 TWA: 1050 mg/m³ 10 hours.
OSHA PEL (United States, 6/2016).
 TWA: 300 ppm 8 hours.
 TWA: 1050 mg/m³ 8 hours.

1,2,4-trimethylbenzene

ACGIH TLV (United States, 3/2016).
 TWA: 25 ppm 8 hours.
 TWA: 123 mg/m³ 8 hours.
NIOSH REL (United States, 10/2013).

Section 8. Exposure controls/personal protection

Naphthalene

TWA: 25 ppm 10 hours.

TWA: 125 mg/m³ 10 hours.

ACGIH TLV (United States). Absorbed through skin.

STEL: 15 ppm 15 minutes.

ACGIH TLV (United States, 3/2016). Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 52 mg/m³ 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 10 ppm 10 hours.

TWA: 50 mg/m³ 10 hours.

STEL: 15 ppm 15 minutes.

STEL: 75 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 10 ppm 8 hours.

TWA: 50 mg/m³ 8 hours.

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- : Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

- : Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Heavy duty, industrial grade chemically resistant gloves constructed of nitrile, neoprene, polyethylene, fluoroelastomer rubber or polyvinyl chloride as approved by glove manufacturer. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Leather gloves are not protective for liquid contact.

Body protection

- : Avoid skin contact with liquid. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

- : Avoid skin contact with liquid. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Leather boots are not protective for liquid contact.

Section 8. Exposure controls/personal protection

- Respiratory protection** : Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If an air purifying respirator is appropriate, use one equipped with cartridges rated for organic vapors.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Transparent, clear to amber or red.
- Odor** : Pungent, characteristic gasoline.
- pH** : Not applicable
- Boiling point** : 38 to 204°C (100.4 to 399.2°F)
- Flash point** : Closed cup: -43°C (-45.4°F) [Tagliabue [ASTM D-56]]
- Evaporation rate** : 7.5 (n-butyl acetate. = 1)
- Lower and upper explosive (flammable) limits** : Lower: 1.4%
Upper: 7.6%
- Vapor pressure** : 29.3 to 100 kPa (220 to 750 mm Hg) [room temperature]
- Vapor density** : 3 to 4 [Air = 1]
- Relative density** : 0.72 to 0.77
- Density lbs/gal** : Estimated 6.21 lbs/gal
- Density gm/cm³** : Not available.
- Solubility** : Very slightly soluble in the following materials: cold water.
- Auto-ignition temperature** : 280°C (536°F)
- Flow time (ISO 2431)** : Not available.
- Viscosity** : Kinematic (room temperature): <0.01 cm²/s (<1 cSt)
- Conductivity** : <50 picosiemens/meter (unadditized)

Section 10. Stability and reactivity

- Reactivity** : Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Do not store with strong oxidizing agents.
- Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------------------|------------------------------|--------------------------|------------|
| Toluene | LC50 Inhalation Vapor | Rat | >20 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 12267 mg/kg | - |
| | LD50 Oral | Rat - Male | 5580 mg/kg | - |
| | TDLo Oral | Rat | 0.65 g/kg | - |
| | TDLo Oral | Rat | 1000 mg/kg | - |
| Xylene | LC50 Inhalation Vapor | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6700 ppm | 4 hours |
| | LD50 Oral | Mouse | 2119 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| Hexanes, other isomers | LC50 Inhalation Vapor | Rat | 48000 ppm | 4 hours |
| Heptane | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Ethanol | LC50 Inhalation Vapor | Mouse | >40000 ppm | 10 minutes |
| | LC50 Inhalation Vapor | Rat | 124700 mg/m ³ | 4 hours |
| | LD50 Oral | Guinea pig | 5560 mg/kg | - |
| | LD50 Oral | Rabbit | 6300 mg/kg | - |
| | LD50 Oral | Rat | 7060 mg/kg | - |
| Butane | LC50 Inhalation Vapor | Mouse | 680000 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 658000 mg/m ³ | 4 hours |
| Benzene | LC50 Inhalation Vapor | Rat | 10000 ppm | 7 hours |
| | LD50 Oral | Mammal - species unspecified | 5700 mg/kg | - |
| | LD50 Oral | Mouse | 4700 mg/kg | - |
| | LD50 Oral | Rat | 6400 mg/kg | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| Ethylbenzene | LD50 Oral | Rat | 3500 mg/kg | - |
| | LD50 Oral | Rat | 10 g/m ³ | 7 hours |
| Cumene | LC50 Inhalation Vapor | Mouse | 10 g/m ³ | 7 hours |
| | LD50 Dermal | Rabbit | 12300 uL/kg | - |
| | LD50 Oral | Rat | 2.9 g/kg | - |
| n-Hexane | LD50 Oral | Rat | 4000 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 48000 ppm | 4 hours |
| | LD50 Oral | Rat | 15840 mg/kg | - |
| Cyclohexane | LC50 Inhalation Vapor | Mouse | 70000 mg/m ³ | 2 hours |
| | LD50 Oral | Rat | 6240 mg/kg | - |
| | LD50 Oral | Rat | 12705 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| | LDLo Oral | Rabbit | 5500 mg/kg | - |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Mouse | 6900 mg/kg | - |
| | LD50 Oral | Rat | 5 g/kg | - |
| Naphthalene | LD50 Oral | Rat | 490 mg/kg | - |

Conclusion/Summary

pentane: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

toluene: Deliberate inhalation of toluene at high concentrations (e.g., glue sniffing and solvent abuse) can cause CNS depression, cardiac arrhythmias and death.

xylene: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, CNS damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross over-exposure.

heptane: Heptane is a CNS depressant and narcosis at elevated concentrations.

ethanol: Inhalation exposure to ethanol vapor at concentrations above applicable workplace exposure levels is expected to produce eye and mucus membrane irritation. Human exposure at concentrations from 1000 to 5000 ppm produced symptoms of narcosis, stupor and unconsciousness. Subjects exposed to ethanol vapor in concentrations between 500 and 10,000 ppm experienced coughing and smarting of the

Section 11. Toxicological information

eyes and nose. At 15,000 ppm there was continuous lacrimation and coughing. While extensive acute and chronic effects can be expected with ethanol consumption, ingestion is not expected to be a significant route of exposure to this product.

Butane: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

cumene: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression.

n-hexane: n-Hexane is a CNS depressant and narcosis at elevated concentrations.

cyclohexane: Cyclohexane is a CNS depressant and narcosis at elevated concentrations.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------------------------|-------------|
| Toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes | - |
| | Eyes - Mild irritant | Rabbit | - | 100 milligrams | - |
| | Skin - Mild irritant | Pig | - | 870 Micrograms | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 250 microliters | - |
| | Skin - Moderate irritant | Rabbit | - | 435 milligrams | - |
| Xylene | Skin - Mild irritant | Rat | - | 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 8 hours 60 microliters | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Ethanol | Skin - Moderate irritant | Rabbit | - | 100 Percent | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.06666667 minutes 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 400 milligrams | - |
| Benzene | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 88 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams | - |
| Ethylbenzene | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 86 milligrams | - |
| Cumene | Eyes - Mild irritant | Rabbit | - | 24 hours 10 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 10 milligrams | - |
| n-Hexane | Eyes - Mild irritant | Rabbit | - | 495 milligrams | - |
| 1,2,4-trimethylbenzene | Skin - Edema | Rabbit | 3 | - | - |
| Naphthalene | Skin - Mild irritant | Rabbit | - | - | - |

Skin

: **xylene:** May cause skin irritation.

cyclohexane: Cyclohexane can cause eye, skin and mucous membrane irritation.

Eyes

: **xylene:** May cause eye irritation.

Respiratory

: **xylene:** May cause respiratory irritation.

Sensitization

Section 11. Toxicological information

Not available.

Skin : **toluene**: Non-sensitizer to skin.

Respiratory : **toluene**: Non-sensitizer to lungs.

Mutagenicity

Not available.

Conclusion/Summary : **heptane**: n-heptane was not mutagenic in the Salmonella/microsome (Ames) assay.
benzene: Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes.
naphthalene: Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) *in vitro*.

Carcinogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|----------------------------|--------------|------|----------|
| Benzene | Positive - Inhalation - TD | Rat - Female | - | - |

Conclusion/Summary : IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic to humans. Exposure to wholly vaporized unleaded gasoline was associated with kidney cancers in male rats and liver tumors in female mice. The male rat kidney tumors are specific to that species and are not relevant to human health. The significance of the tumors identified in female mice is unclear.

ethanol: IARC Monograph 96 (2010) identified Ethanol in alcoholic beverages as a Group 1 carcinogen.

benzene: Studies of workers exposed to benzene show clear evidence that over-exposure can cause cancer of the blood forming organs (acute myelogenous leukemia) and aplastic anemia. Also, studies indicate repeated over-exposure to benzene may be associated with other types of leukemia and other blood disorders, including myelodysplastic syndromes. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems.

ethylbenzene: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). Also, the incidence of tumors was elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B).

cumene: Cumene exhibited hyperplasia of the epithelial tissues of the nose in NTP animal studies. Exposed male and female mice experienced metaplasia and hyperplasia of the lung. Also, male mice exhibited nonneoplastic lesions in the forestomach and liver. Adenomas of the respiratory epithelium of the nose were observed in male and female rats. Male rats exposed to cumene exhibited increased incidences of renal tubule adenoma or carcinoma (combined) as well as interstitial cell adenoma of the testis. Adenomas and carcinomas of the lung were increased in male and female mice exposed to cumene. The relevance of these findings to humans is not clear at this time. IARC has classified cumene as "possibly carcinogenic to humans" (Group 2B). In addition, NTP has determined cumene is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in experimental animals.

naphthalene: Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract.

Classification

Section 11. Toxicological information

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|--|
| Toluene | - | 3 | - |
| Xylene | - | 3 | - |
| Ethanol | - | 1 | - |
| Benzene | + | 1 | Known to be a human carcinogen. |
| Ethylbenzene | - | 2B | - |
| Cumene | - | 2B | Reasonably anticipated to be a human carcinogen. |
| Naphthalene | - | 2B | Reasonably anticipated to be a human carcinogen. |

Reproductive toxicity

Not available.

Conclusion/Summary

toluene: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Several studies of workers suggest long-term exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals were largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure.

benzene: One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of aplastic anemia have been reported in the offspring of persons severely over-exposed to benzene. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and skeletal variations.

ethylbenzene: Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time.

n-hexane: In laboratory studies, prolonged exposure to elevated concentrations of n-hexane was associated with decreased sperm count and degenerative changes in the testicles of rats.

Teratogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------------------|---------|------|----------|
| Benzene | Negative - Inhalation | Rat | - | - |

Conclusion/Summary

: No additional information.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|-----------------------------|------------|-------------------|------------------------------|
| Toluene | Category 3 | Not applicable. | Narcotic effects |
| Pentanes | Category 3 | Not applicable. | Narcotic effects |
| Hexanes, mixture of isomers | Category 3 | Not applicable. | Narcotic effects |
| Heptane | Category 3 | Not applicable. | Narcotic effects |
| Ethanol | Category 3 | Not applicable. | Respiratory tract irritation |
| Butane | Category 2 | Not determined | central nervous system (CNS) |
| Cumene | Category 3 | Not applicable. | Respiratory tract irritation |
| Ethylbenzene | Category 3 | Not applicable. | Respiratory tract irritation |

Section 11. Toxicological information

| | | | |
|------------------------|------------|-----------------|------------------------------|
| n-hexane | Category 3 | Not applicable. | Narcotic effects |
| Cyclohexane | Category 3 | Not applicable. | Narcotic effects |
| 1,2,4-trimethylbenzene | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|----------|------------|-------------------|---------------------------|
| Toluene | Category 2 | Inhalation | kidneys |
| benzene | Category 1 | Inhalation | blood system |
| n-hexane | Category 2 | Inhalation | peripheral nervous system |

Aspiration hazard

| Name | Result |
|------------------------|--------------------------------|
| Pentanes | ASPIRATION HAZARD - Category 1 |
| Toluene | ASPIRATION HAZARD - Category 1 |
| Hexanes, other isomers | ASPIRATION HAZARD - Category 1 |
| Heptane | ASPIRATION HAZARD - Category 1 |
| Benzene | ASPIRATION HAZARD - Category 1 |
| Ethylbenzene | ASPIRATION HAZARD - Category 1 |
| Cumene | ASPIRATION HAZARD - Category 1 |
| n-Hexane | ASPIRATION HAZARD - Category 1 |
| Cyclohexane | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Breathing high concentrations can cause irregular heartbeats which can be fatal.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Breathing high concentrations can cause irregular heartbeats which may be fatal. Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination. Repeated or prolonged overexposure to certain chemicals in this product may exacerbate the hearing loss effects associated with noise exposure. Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- General** : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : May cause genetic defects.
- Teratogenicity** : Suspected of damaging the unborn child.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|------------------------------------|--|----------|
| Toluene | Acute EC50 12500 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 11600 µg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 6000 µg/l Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 5500 µg/l Fresh water | Fish - Oncorhynchus kisutch - Fry | 96 hours |
| Xylene | Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Acute EC50 90 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 8.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 15700 µg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 19000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| Heptane | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 16940 µg/l Fresh water | Fish - Carassius auratus | 96 hours |
| | Acute EC50 1.5 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 4 mg/l | Fish - Carassius auratus | 24 hours |

Section 12. Ecological information

| | | | |
|--------------|---|---|----------|
| Ethanol | Acute LC50 375000 µg/l Fresh water | Fish - Oreochromis mossambicus | 96 hours |
| | Acute LC50 4924 ppm Fresh water | Fish - Gambusia affinis - Adult | 96 hours |
| | Acute EC50 17.921 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 25500 µg/l Marine water | Crustaceans - Artemia franciscana - Larvae | 48 hours |
| | Acute LC50 42000 µg/l Fresh water | Fish - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC 0.375 ul/L Fresh water | Fish - Gambusia holbrooki - Larvae | 12 weeks |
| Benzene | Acute EC50 29000 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 1600000 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute EC50 9230 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 21 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| | Acute LC50 5.28 ul/L Fresh water | Fish - Oncorhynchus gorbuscha - Fry | 96 hours |
| | Chronic NOEC 98 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| Ethylbenzene | Chronic NOEC 1.5 to 5.4 ul/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 4 weeks |
| | Acute EC50 4600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 6530 µg/l Fresh water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 2930 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 4200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Cumene | Acute EC50 2600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 7400 µg/l Fresh water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 10600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| n-Hexane | Acute LC50 2700 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 2500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 4530 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Cyclohexane | Acute LC50 17000 µg/l Marine water | Crustaceans - Cancer magister - Zoea | 48 hours |
| | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscus - Adult | 48 hours |
| | Acute LC50 7720 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Naphthalene | Acute LC50 22.4 mg/l Fresh water | Fish - Tilapia zillii | 96 hours |
| | Acute EC50 1.6 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 213 µg/l Fresh water | Fish - Melanotaenia fluviatilis - Larvae | 96 hours |
| | Chronic NOEC 0.5 mg/l Marine water | Crustaceans - Uca pugnax - Adult | 3 weeks |
| | Chronic NOEC 1.5 mg/l Fresh water | Fish - Oreochromis mossambicus | 60 days |

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : **toluene**: Rapidly biodegradable in aerobic conditions.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Toluene | - | - | Readily |
| Benzene | - | - | Readily |

Section 12. Ecological information

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| Pentanes | 3.45 | 171 | low |
| Toluene | 2.73 | 90 | low |
| Xylene | 3.12 | 8.1 to 25.9 | low |
| Heptane | 4.66 | 552 | high |
| Ethanol | -0.35 | - | low |
| Butane | 2.89 | - | low |
| Benzene | 2.13 | 11 | low |
| Ethylbenzene | 3.6 | - | low |
| Cumene | 3.55 | 35.48 | low |
| n-Hexane | 4 | 501.187 | high |
| Cyclohexane | 3.44 | 167 | low |
| 1,2,4-trimethylbenzene | 3.63 | 243 | low |
| Naphthalene | 3.4 | 36.5 to 168 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.






RCRA classification : D001, D018

United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS # | Status | Reference number |
|---|-----------|--------|------------------|
| Xylene | 1330-20-7 | Listed | U239 |
| Toluene; Benzene, methyl- | 108-88-3 | Listed | U220 |
| Benzene (I,T) | 71-43-2 | Listed | U019 |
| Cumene (I); Benzene, (1-methylethyl)- (I) | 98-82-8 | Listed | U055 |
| Cyclohexane (I); Benzene, hexahydro- (I) | 110-82-7 | Listed | U056 |
| Naphthalene | 91-20-3 | Listed | U165 |

Section 14. Transport information

Section 14. Transport information

| | DOT Classification | IMDG | IATA |
|----------------------------|--|--|--|
| UN number | UN1203 | UN 1203 | UN1203 |
| UN proper shipping name | UN 1203, Gasoline, 3 PG II. | UN 1203, Gasoline, 3 PG II. | UN 1203, Gasoline, 3 PG II. |
| Transport hazard class(es) | 3   | 3   | 3  |
| Packing group | II | II | II |
| Environmental hazards | Yes. | Yes. | Yes. |

Additional information

DOT Classification

: **Packaging instruction**
Passenger aircraft
Quantity limitation: 5 L

Cargo aircraft

Quantity limitation: 60 L

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Cargo Aircraft Only: 60 L. Limited Quantities - Passenger Aircraft: 5 L.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations

: **United States inventory (TSCA 8b):** All components are listed or exempted.
Clean Water Act (CWA) 307: toluene; benzene; ethylbenzene; naphthalene
Clean Water Act (CWA) 311: xylene; toluene; benzene; ethylbenzene; cyclohexane; naphthalene
This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
Clean Air Act (CAA) 112 regulated flammable substances: pentane; Butane

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2B
 GERM CELL MUTAGENICITY - Category 1
 CARCINOGENICITY - Category 1B
 TOXIC TO REPRODUCTION (Fertility) - Category 2
 TOXIC TO REPRODUCTION (Unborn child) - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), hearing organs) - Category 1
 ASPIRATION HAZARD - Category 1
 HNOC - Defatting irritant
 HNOC - Static-accumulating flammable liquid

Composition/information on ingredients

| Name | % | Classification |
|----------|-------------|---|
| Gasoline | Proprietary | FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), hearing organs) - Category 1 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant HNOC - Static-accumulating flammable liquid |
| Pentanes | 10 - 30 | FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 |
| Toluene | 10 - 30 | FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) (inhalation) - Category 2 ASPIRATION HAZARD - Category 1 |
| Xylene | 10 - 30 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 |

Section 15. Regulatory information

| | | |
|------------------------|---------|---|
| Hexanes, other isomers | 10 - 30 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION (Fertility) (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Heptane | 10 - 30 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Ethanol | 3 - 7 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Butane | 3 - 7 | FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas SIMPLE ASPHYXIANTS SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 2 |
| Benzene | 3 - 7 | FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system) (inhalation) - Category 1 |
| Ethylbenzene | 1 - 5 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Cumene | 1 - 5 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| n-Hexane | 1 - 5 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (peripheral nervous system) (inhalation) - Category 2 |
| Cyclohexane | 1 - 5 | ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |

Section 15. Regulatory information

| | | |
|------------------------|-------|--|
| 1,2,4-trimethylbenzene | 1 - 5 | (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Naphthalene | 1 - 5 | FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 |

SARA 313

| | Product name | CAS number | % |
|--|------------------------|------------|-----|
| Form R - Reporting requirements | Toluene | 108-88-3 | <20 |
| | Xylenes, mixed isomers | 1330-20-7 | <20 |
| | Benzene | 71-43-2 | <5 |
| | Ethylbenzene | 100-41-4 | <4 |
| | Cumene | 98-82-8 | <4 |
| | n-Hexane | 110-54-3 | <3 |
| | Cyclohexane | 110-82-7 | <3 |
| | 1,2,4-Trimethylbenzene | 95-63-6 | <2 |
| | Naphthalene | 91-20-3 | <2 |
| Supplier notification | Toluene | 108-88-3 | <20 |
| | Xylenes, mixed isomers | 1330-20-7 | <20 |
| | Benzene | 71-43-2 | <5 |
| | Ethylbenzene | 100-41-4 | <4 |
| | Cumene | 98-82-8 | <4 |
| | n-Hexane | 110-54-3 | <3 |
| | Cyclohexane | 110-82-7 | <3 |
| | 1,2,4-Trimethylbenzene | 95-63-6 | <2 |
| | Naphthalene | 91-20-3 | <2 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: The following components are listed: HEPTANE; N-HEPTANE; xylene; toluene; Octanes, all isomers; PENTANE; ETHYL ALCOHOL; DENATURED ALCOHOL; BENZENE; Butane; cumene; ethylbenzene; trimethylbenzene; methylcyclohexane; n-hexane; ethyltoluene; cyclohexane; 2,2,4-trimethylpentane; PSEUDOCUMENE; Cyclopentane; NAPHTHALENE

New York

: The following components are listed: Xylene mixed; Toluene; Benzene; Cumene; Benzene, 1-methylethyl-; Ethylbenzene; Hexane; Cyclohexane; Benzene, hexahydro-; 2, 2,4-Trimethylpentane; Naphthalene


New Jersey

: The following components are listed: Gasoline

Pennsylvania

: The following components are listed: Gasoline

California Prop. 65 Clear and Reasonable Warnings (2018)

 **WARNING:** This product can expose you to chemicals including Ethanol, Benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Cumene, Naphthalene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

| Ingredient name | % | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|--|-----|--------|--------------|--|---|
| Gasoline engine exhaust (condensates / extracts) | 100 | Yes. | No. | No. | No. |
| Toluene | <20 | No. | Yes. | No. | 7000 µg/day (ingestion) |
| Ethanol | <10 | Yes. | Yes. | No. | No. |
| Benzene | <5 | Yes. | Yes. | 6.4 µg/day (ingestion) 13 µg/day (inhalation) | 24 µg/day (ingestion) 49 µg/day (inhalation) |
| Ethylbenzene | <5 | Yes. | No. | 41 µg/day (ingestion) 54 µg/day (inhalation) | No. |
| Cumene | <5 | Yes. | No. | No. | No. |
| Naphthalene | <2 | Yes. | No. | Yes. | No. |

International regulations

WHMIS (Canada)

- : Class B-2: Flammable liquid
- Class D-2A: Material causing other toxic effects (Very toxic).
- Class D-2B: Material causing other toxic effects (Toxic).

Inventory list

United States

- : All components are listed or exempted.

Australia

- : All components are listed or exempted.

Canada

- : All components are listed or exempted.

China

- : All components are listed or exempted.

Europe

- : All components are listed or exempted.

Japan

- : **Japan inventory (ENCS):** All components are listed or exempted.
- Japan inventory (ISHL):** Not determined.

Malaysia

- : All components are listed or exempted.

New Zealand

- : All components are listed or exempted.

Philippines

- : All components are listed or exempted.

Republic of Korea

- : All components are listed or exempted.

Taiwan

- : All components are listed or exempted.

Thailand

- : Not determined.

Turkey

- : Not determined.

Viet Nam

- : Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Procedure used to derive the classification

| Classification | Justification |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 2 | On basis of test data |
| SKIN IRRITATION - Category 2 | Calculation method |
| EYE IRRITATION - Category 2B | Expert judgment |
| GERM CELL MUTAGENICITY - Category 1 | Calculation method |
| CARCINOGENICITY - Category 1B | Expert judgment |
| TOXIC TO REPRODUCTION (Fertility) - Category 2 | Expert judgment |
| TOXIC TO REPRODUCTION (Unborn child) - Category 2 | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 2 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), hearing organs) - Category 1 | Calculation method |
| ASPIRATION HAZARD - Category 1 | Expert judgment |
| AQUATIC HAZARD (ACUTE) - Category 1 | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 1 | Calculation method |

History

| | |
|---------------------------------------|--|
| Date of printing | : 3/19/2018 |
| Date of issue/Date of revision | : 3/19/2018 |
| Date of previous issue | : No previous validation |
| Version | : 1 |
| Key to abbreviations | : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations |
| References | : Not available. |

Indicates information that has changed from previously issued version.

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