

Safety Data Sheet

PMMA Solvent Based Cleaner

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PMMA Solvent Based Cleaner
Product Use Description : Solvent

Manufacturer or supplier's details

Company : GAF
Address : 1 Campus Drive
Parsippany NJ 07954
877-GAF-ROOF

24 Hour Emergency telephone number:
800-424-9300 (ChemTrec)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2
Eye irritation : Category 2A
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS Label Element

Hazard pictograms :  

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements :
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools. P
243 Take precautionary measures against



Safety Data Sheet

PMMA Solvent Based Cleaner

static discharge.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Potential Health Effects

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

Appearance	liquid
Color	clear, colorless
Odor	sweet, ester-like, fruit-like odor
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Safety Data Sheet

PMMA Solvent Based Cleaner

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
141-78-6	Ethyl acetate	90 - 100

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from firefighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Use a water spray to cool fully closed containers.



Safety Data Sheet

PMMA Solvent Based Cleaner

- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

NFPA Flammable and Combustible Liquids Classification:
Flammable Liquid Class IB

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE



Safety Data Sheet

PMMA Solvent Based Cleaner

Advice on safe handling : Avoid formation of aerosol.
 Do not breathe vapors/dust.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 Take precautionary measures against static discharges.

Conditions for safe storage : No smoking.
 Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Keep away from heat and sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
141-78-6	Ethyl acetate	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m ³	NIOSH REL
		TWA	400 ppm 1,400 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,400 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
 In the case of vapor formation use a respirator with an approved filter.

Hand protection
 Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.



Safety Data Sheet

PMMA Solvent Based Cleaner

Eye protection	: Tightly fitting safety goggles or safety glasses. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, colorless
Odor	: sweet, ester-like, fruit-like odor
Odor Threshold	: 3.9 ppm
pH	: No data available
Freezing Point (Melting point/range)	: -84 °C (-119 °F)
Boiling Point (Boiling point/boiling range)	: 76.5 - 77.5 °C (169.7 - 171.5 °F)
Flash point	: -3 °C (27 °F)
Evaporation rate	: 4.1 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 11.5 %(V)
Lower explosion limit	: 2.2 %(V)
Vapor pressure	: 73 mmHg @ 20 °C (68 °F)
Relative vapor density	: 3
Relative density	: 0.902 @ 20 °C (68 °F)
Density	: Approximate 0.902 g/ml @ 25 °C (77 °F)



Safety Data Sheet

PMMA Solvent Based Cleaner

Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: log Pow: 0.73
Auto-ignition temperature	: 427 °C
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

141-78-6:

Acute oral toxicity	: LD50 (rat): 5,620 mg/kg
Acute inhalation toxicity	: LD L0 (rat, male and female): > 22.5 mg/l Exposure time: 6 h Test atmosphere: vapor Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. Remarks: Not classified
Acute dermal toxicity	: LD50 (rabbit): > 20,000 mg/kg

Skin corrosion/irritation

Components:

Safety Data Sheet

PMMA Solvent Based Cleaner

141-78-6:

Species: rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

Product:

Remarks: Contact with eyes may cause irritation.

Components:

141-78-6:

Species: rabbit
Result: Irritating to eyes.

Respiratory or skin sensitization

Components:

141-78-6:

Species: guinea pig
Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Components:

141-78-6:

Genotoxicity in vitro	: Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No data available
	: Test Type: Chromosome aberration test in vitro Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: No data available
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: Chinese hamster (male and female) Application Route: Oral Dose: 2500 mg/kg bw Method: OECD Test Guideline 474 Result: negative GLP: No data available



Safety Data Sheet

PMMA Solvent Based Cleaner

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

141-78-6:

Species: mouse, (male and female)
Application Route: Intraperitoneal injection
Exposure time: 8 wk
Dose: 150 and 750 mg/kg bw/injection
Frequency of Treatment: 3 days/week
Result: did not display carcinogenic properties

Carcinogenicity – Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

141-78-6:

Effects on fertility : Test Type: Two-generation study
Species: mouse, male and female
Application Route: Oral
Dose: 5, 10 and 15% v/v in water
General Toxicity - Parent: NOAEL: 15 % diet
General Toxicity F1: NOAEL: 10 % diet
Symptoms: reduced litter size
Method: OECD Test Guideline 416
GLP: No data available
Remarks: Information given is based on data obtained from similar substances.

Effects on fetal development : Species: rat, male
Application Route: Inhalation
Application: 150, 750, and 1500 mg/kg bw/day
Dose: 10, 50, 100, 200, 400, 800, 1600 ppm
General Toxicity - Parent: NOAEL: 5000 ppm
General Toxicity - F1: NOAEL: 2000 ppm
Remarks: Animal testing did not show any effects on fertility.
Method: OECD Test Guideline 414
GLP: No data available
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development.

Safety Data Sheet

PMMA Solvent Based Cleaner

STOT - single exposure

Product: No data available

Components:

141-78-6:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

STOT - repeated exposure

Product: No data available

Components:

141-78-6: No data available

Repeated dose toxicity

Components:

141-78-6:

Species: rat, male and female

NOAEL: 900 mg/kg

LOAEL: 3,600 mg/kg

Application Route: Oral

Exposure time: 90-92 d

Number of exposures: daily

Dose: 0, 300, 900 and 3600 mg/kg bw

GLP: yes

Species: rat, male and female

NOAEL: 350 ppm

Application Route: Inhalation

Exposure time: 94 d

Number of exposures: 6 h/d, 5 d/wk

Dose: 0, 350, 750, 1500 ppm

Symptoms: Local irritation

Aspiration toxicity

Product:

No aspiration toxicity classification

Safety Data Sheet

PMMA Solvent Based Cleaner

Components:

141-78-6:

No aspiration toxicity classification

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

141-78-6:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,300 mg/l
Exposure time: 24 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 4,300 mg/l
Exposure time: 24 h

Persistence and degradability

Components:

141-78-6:

Biodegradability : anaerobic
Inoculum: activated sludge
Result: Readily biodegradable.

Bioaccumulative potential

Components:

141-78-6:

Partition coefficient: n-octanol/water : log Pow: 0.68 (25 °C)
pH: 7

Mobility in soil

No data available



Safety Data Sheet

PMMA Solvent Based Cleaner

Other adverse effects

No data available

Product:

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1173, ETHYL ACETATE, 3, II

IATA (International Air Transport Association):

UN1173, ETHYL ACETATE, 3, II, Flash Point:-3 °C(27 °F)

IMDG (International Maritime Dangerous Goods):

UN1173, ETHYL ACETATE, 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Moderate eye irritant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethyl acetate	141-78-6	5000	5000



Safety Data Sheet

PMMA Solvent Based Cleaner

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

141-78-6	Ethyl acetate	100 %
----------	---------------	-------

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

141-78-6	Ethyl acetate	90 - 100 %
----------	---------------	------------

Pennsylvania Right To Know

141-78-6	Ethyl acetate	90 - 100 %
----------	---------------	------------

New Jersey Right To Know

141-78-6	Ethyl acetate	90 - 100 %
----------	---------------	------------

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

1907/2006 (EU)	:	n (Negative listing) (Not in compliance with the inventory)
-----------------------	---	--



Safety Data Sheet

PMMA Solvent Based Cleaner

Switzerland. New notified substances and declared preparations	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)



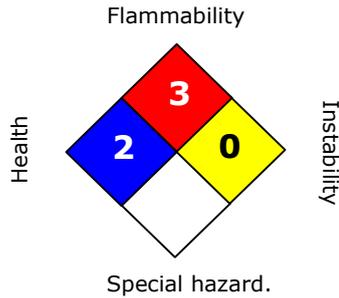
Safety Data Sheet

PMMA Solvent Based Cleaner

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High 4 =Extreme, *
 = Chronic

ADDITIONAL COMMENTS:

None.

DATE OF PREVIOUS SDS:

5/19/2017

CHANGES SINCE PREVIOUS SDS:

Name and phone number change.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.