

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE

Product Identifier: SPF-6

Recommended Use: Cleaning Compound

Recommended Restrictions: None known

MANUFACTURER INFORMATION:

PMG Suppliers, LLC

1062 Pearl Dr

Bossier City, LA 71111

USA

Phone: (318) 742-8000

Emergency Phone: (800) 424-9300

(Chemtrec) (703) 527-3887

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARD: Flammable liquids, Category 4

HEALTH HAZARD: Skin irritation, Category 2

Eye irritation, Category 2A

Reproductive toxicity, Category 1B (unborn child)

Specific targeted organ toxicity - single exposure, Category 3

ENVIRONMENTAL HAZARD: Not classified

OSHA defined hazards: Not classified

HMIS Hazard Rating: H1, F2, R0, PE C

LABEL ELEMENTS:

Hazard Symbol: Health Hazard, Exclamation Mark

Signal Word: Danger

Hazard Statements: H227: Combustible liquid

H315: Causes skin irritation

H319: Causes serious eye irritation

H360: May damage the unborn child

H335: May cause respiratory irritation

Precautionary Statements:

Prevention

P210: Keep away from heat/sparks/open flames - No smoking.

P280: Wear protective gloves/eye protection/protective clothing.

P264: Wash hands with soap and water thoroughly after handling.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing fume/gas/mist/vapors/spray.

P271: Use only outdoors or in a well-ventilated area.

Response

P370+P378: In case of fire: Use carbon dioxide, foam, or dry chemical for extinction.

P303+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical attention.

P362: Take off contaminated clothing and wash before reuse.

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 attention.

P308+P311: IF exposed or concerned: Get medical attention.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage

P312: Call a POISON CENTER or doctor if you feel unwell.

P403+P235: Store in a well-ventilated place. Keep cool.

P233: Keep container tightly closed.

Disposal

P405: Store locked up.

P501: Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | | |
|---------------------|--------------------------|-----------------|--------|
| Blended Esters | | | 10-20% |
| Proprietary Blend 1 | | | 3-7% |
| Cyclic Amine | 10 ppm TWA (skin) | | 65-75% |
| Glycol Ether DPM | TLV 100 ppm (OSHA&ACGIH) | CAS# 34590-94-8 | 5-15% |

This product is a mixture of materials, each of which is listed in TSCA as indicated on suppliers' MSDS.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

- Eyes: Causes irritation, redness, and pain. May possibly cause corneal clouding. In case of contact, flush eyes well with water for 15 minutes. Obtain medical attention if irritation develops.
- Skin: Prolonged skin contact may cause irritation and skin rash. Flush skin with plenty of water and wash affected area with soap and water. Launder contaminated clothing before reuse. Call physician if irritation develops.
- Inhalation: Mild irritant if vapor or mist from heated solvent is inhaled. Coughing, possible breathing difficulties may be observed. Remove to fresh air. Administer artificial respiration if breathing is stopped. Call physician.
- Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea. If ingested, give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have medical personnel determine if vomiting or evacuation of the stomach is necessary. Do not give anything by mouth to an unconscious person.
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5. FIRE FIGHTING MEASURES

Flash Point, F: 199 (93 C), PMCC

Flammable limits in air by volume-Lower- 1.0% Upper- 3.9%

Suitable Extinguishing Media: Water fog to cool fire; carbon dioxide, foam, or dry chemical to extinguish the fire.

Specific Hazards During Fire Fighting: Do not allow run-off from fire fighting to enter drains or water courses.

Special Protective Equipment for Fire-Fighters: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual fire and explosion hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

ACTION FOR SPILLS:

Personal Precautions: Wear gloves and other personal protective equipment when handling this product. Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental Precautions: Prevent spills of the purchased product from entering the environment.

Methods for Clean Up: If a spill occurs, contain it. Absorb it on a suitable absorbent material, such as sand or clay, and discard it to solid waste for disposal according to local/national regulations. Contact proper authorities to report the spill whenever the reportable quantity has been exceeded.

 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating, and drinking should be prohibited in the application area. Wash hands after use. Protect from static electrical sparks. Ground all pumping equipment. Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage: Store in a dry, well ventilated area. Store at 40-110°F (4-43°C) range. Store away from ignition sources and protect from static electrical sparks. Keep containers tightly closed when not in use. Store away from incompatible materials (see Section 10).

 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component Exposure Limits:

| CAS#: | Component Name: | Exposure Limits: |
|------------|------------------|--------------------------|
| 34590-94-8 | Cyclic Amine | 10 ppm TWA (skin) |
| | Glycol Ether DPM | TLV 100 ppm (OSHA&ACGIH) |

Respiratory Protection:

Local Ventilation: Recommended to maintain airborne levels below exposure limits

Mechanical Ventilation: Recommended to maintain airborne levels below exposure limits

Respiratory Protection: None required under normal use

Hand Protection: Wear nitrile or neoprene gloves. The exact break through time has to be found out by the glove manufacturer and has to be observed.

Eye Protection: Goggles or safety glasses with side shields.

Protective Clothing: Protective clothing (apron, lab coat, coveralls) as needed depending on level of exposure.

Safety Equipment: Eye Fountain and safety shower located in the work area.

 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------------------|
| Boiling Point, deg. F (C). Solubility In | >400 (204) |
| Water @ 68 F (20 C). Specific Gravity @ | Miscible |
| 68 F (20 C) (Estimate) Vapor Pressure, mm | 1 |
| Hg @ 68 F (20 C). | Not Established |
| Vapor Density, (AIR=1) | >1 |
| Volatiles (VOC), % by WT | 94-97% |
| Appearance | Clear yellow fluid |
| Odor | Mild amine-like |
| pH | |
| Melting point/freezing point | Unknown |
| Flash Point, deg. F (C) | 199 (93) |
| Flammability (solid, gas) | Flammable vapors above 199 F |
| Explosive Limits | 1.0% LEL, 3.9% UEL |
| Oxidizing Properties | Will not cause oxidation |
| Partition Coefficient | Unknown |
| Auto-ignition temperature | 473°F (245°C) |
| Viscosity | Low |
| Evaporation Rate (BuAc=1) | <1 |

10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use.

Stability: Stable under normal conditions

Incompatibilities (materials to avoid): Strong oxidizers

Conditions to Avoid: Heat, flames, and sparks

Hazardous Decomposition Products: CO₂, CO, NO_x and hydrocarbon decomposition products at elevated temperatures.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

This product does not contain any listed (NTP, IARC, OR OSHA) carcinogens.

Information on likely routes of exposure:

Eyes: Causes irritation, redness, and pain. May possibly cause corneal clouding.

Skin: Prolonged skin contact will defat the skin tissue and cause irritation and skin rash.

Inhalation: Mild irritant if vapor or mist from heated solvent is inhaled. Coughing, possible breathing difficulties may be observed.

Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea.

Chronic Effects: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the testes after repeated inhalation of high doses.

Information on toxicological effects:

Acute toxicity: Expected to be a low hazard for usual industrial handling by trained personnel.

Skin corrosion/irritation: Prolonged skin contact may cause skin irritation.

Serious eye damage/irritation: Direct contact with eyes may cause irritation.

Respiratory or skin sensitization: Not available.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product does not contain any listed (NTP, IARC, or OSHA) carcinogens.

Reproductive toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

STOT-single exposure: Causes temporary irritation of the respiratory tract.

STOT-repeated exposure: Not available.

Aspiration hazard: Not available.

12. ECOLOGICAL INFORMATION

General notes: The purchased product contains a solvent blend; therefore, do not allow it to enter sewers, streams or other water courses.

ECOTOXICITY: No specific information is available.

MOBILITY: No specific information is available.

PERSISTENCE AND DEGRADABILITY: No specific information is available.

BIOACCUMULATIVE POTENTIAL: No specific information is available.

OTHER ADVERSE EFFECTS: No specific information is available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The purchased product contains a solvent blend; therefore, do not allow it to enter sewers, streams or other water courses. Disposal of the spent solutions of the product must be done in compliance with applicable local, state, and federal regulations and in a manner acceptable to good waste management practices.

RCRA Hazardous Waste: This product would not be considered hazardous waste if disposed of in its original form. Under R.C.R.A. requirements, it is the

responsibility of the user of products to determine, at the time of disposal, whether the spent solution of the product meets R.C.R.A. criteria for hazardous waste. This is because product uses, processes and soil compositions may render the resulting material hazardous. Disposal of the spent solutions of the product should be made in a manner acceptable to good waste management practices and in compliance with applicable local, state, and federal regulations.

Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for safe recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty container. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

IATA Shipping Classification: Not Regulated.
DOT Shipping Classification: Cleaning Compound - Cleaner SPF-6
DOT-49CFR 173.150 (f).
Marine Pollutant: No
HMIS Hazard Rating: H1, F2, R0, PE C

15. REGULATORY INFORMATION

California Proposition 65 Certification:
Warning: This product contains 1-methyl-2-pyrrolidone, a chemical listed under Proposition 65 as known to the state of California to cause birth defects or other reproductive harm.

Reportable Ingredients:
SARA 313: 1-methyl-2-pyrrolidone CAS# 872-50-4 70%
SARA 302: none
CERCLA: none

Toxic Substances Control Act (TSCA) Certification:
This product contains a mixture of ingredients. Each ingredient has been reviewed and found to be listed in the Toxic Substance Control Act Chemical Substance Inventory.

16. OTHER INFORMATION

All statements, information, and data provided in this material safety data sheet are believed to be accurate and reliable, but are presented without guarantee, representation, warranty, or responsibility of any kind, expressed or implied. Any and all representations and/or warranties of merchantability or fitness for a particular purpose are specifically disclaimed. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or violate patents.