

MSDS Material Safety Data Sheet

PE Fusion™ MANUFACTURER'S NAME

SECTION I

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HAZARD RATINGS: HEALTH (2) FIRE (3) REACTIVITY (0) EQUIPMENT (B)

SECTION II

COMPOSITION / INFORMATION ON INGREDIENTS

Cas #	Chemical Name	Perc.
Part A:		
Trade Secret	Acrylate	40-80%
9003-56-9	Acrylonitrile-Butadiene-Styrene-Resin	10-30%
14808-60-7	Silica Sand	10-30%
Part B:		
14808-60-7	Silica Sand	50-70%
Trade Secret	Polyester Adipate	20-40%
Trade Secret	Complexed Amine/Polyol Blend	10-30%
None of the remaining components are considered a hazard.		

SECTION III

HAZARDS IDENTIFICATION

Route of Entry: Eyes, Skin, Ingestion, Inhalation
Target Organs: None known
Inhalation: May cause irritation to nose and throat.
Skin Contact: May cause irritation and dermatitis.
Eye Contact: May cause irritation, sensitization and may lead to eye damage.
Ingestion: May cause irritation of the mouth, stomach and sensitization.

OSHA Regulation 29 CFR 1910.1000 Requires the following permissible exposure limits:

Acrylate CAS No.: Trade Secret OSHA/ACGIH (TWA/STEL) Not established
Acrylonitrile-Butadiene-Styrene Resin CAS No.: 9003-56-9 OSHA/ACGIH (TWA/STEL) Not established
2-Ethylhexyl Methacrylate CAS No.: 688-84-6 OSHA/ACGIH (TWA/STEL) Not established
Silica Sand CAS NO.: 14808-60-7 OSHA/ACGIH (TWA/STEL) 10mg/m³ – 0.05 mg/m³
Polyester Adipate CAS No.: Trade Secret OSHA/ACGIH (TWA/STEL) Not established
Complexed Amine/Polyol Blend CAS No.: Trade Secret OSHA/ACGIH (TWA/STEL) Not established

SECTION IV

FIRST AID MEASURES

Inhalation: If overexposure occurs, remove victim to fresh air. If breathing stops, administer artificial respiration. Seek immediate medical attention. Symptoms may include difficulty breathing, coughing, excessive sneezing, soreness of the throat, tightness in chest and respiratory failure.

Skin Contact: Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation persists, consult a physician. Launder contaminated clothing before reuse. Extremely contaminated clothing should be discarded. Symptoms may include redness, dermatitis, blistering and severe irritation.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. If necessary, gently hold open eyelids during the flush. Immediately seek medical attention.

Ingestion: If large amounts of material is swallowed, do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs. Immediately consult a physician. Do not attempt to give liquid to an unconscious person.

SECTION V

FIRE FIGHTING MEASURES

Flash Point: A: 250 deg. F. B: 176 deg. F.
 Flash Point Method: Pensky Martins Closed Cup Method
 Burning Rate: No data available.
 Autoignition Temperature: No data available.
 LEL: No data available.
 UEL: No data available.
 Flammability Classification: A: Combustible Liquid

Other: Special Fire Fighting Procedures: NONE. Avoid breathing smoke. MFPA Class B – extinguisher (dry chemical or foam) for class IC fires. Water spray may be ineffective on fire but can protect fire fighters and cool closed containers. Use fog nozzles if water is used. Use supplied breathing masks. At higher temperatures, pressure builds up in sealed containers. NOTE: Flammable/Combustible liquid can release vapors that form flammable/combustible mixtures at temperatures at or above the flashpoint. DO NOT pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION VI

ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Contain spill with inert materials (sand, vermiculite, etc.). Sweep or scoop up and put into containers. Keep containers closed with material covered with a water blanket.

SECTION VII

HANDLING AND STORAGE

Handling Precautions: For professional use only. Use as directed. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Avoid uncontrolled mixing. Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.

Storage Requirements: Store in a cool/dry location. Store away from sparks and open flames. Containers of this material may be hazardous when emptied. Since containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

SECTION VIII

EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces.

Protective Equipment: RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

PROTECTIVE CLOTHING / EQUIPMENT: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective goggles and face shield, per OSHA eye and face protection regulations (20 CFR 1910, 133). Wear butyl rubber, nitrile rubber or polyethylene gloves.

CONTAMINATED EQUIPMENT: Remove contaminated clothes immediately. Launder before reuse.

OTHER PRECAUTIONS: Never eat, drink, or smoke in work areas.

SECTION IX

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A: White B: Clear	Boiling Point:	No data available
Physical State:	Paste/Gel	Freezing/Melting Pt.:	Not applicable
Odor:	A: Mile B: Acrylic	Solubility:	Slight
pH:	Not applicable	Spec Grav./Density:	A: 1.063 g/cc B: 0.984g/cc
Vapor Pressure:	Not determined		
Vapor Density:	Not determined		
Viscosity:	A: 49000cps B: 25000cps		
Percent Volatile:	A: 6.15% B: 39.86% ASTM D2369@110C		

SECTION X**STABILITY AND REACTIVITY**

Stability:	Stable
Conditions to avoid:	Heat and Flames
Materials to avoid (incompatibility):	Strong Acids
Hazardous Decomposition products:	Carbon Monoxide, Carbon Dioxide and oxides of Nitrogen, Gases may contain toxic vapors and gases particles.
Hazardous Polymerization:	Will not occur with normal handling.

SECTION XI**TOXICOLOGICAL INFORMATION**

No data available

SECTION XII**ECOLOGICAL INFORMATION**

No data available

SECTION XIII**DISPOSAL CONSIDERATIONS**

Consult municipal authorities, landfill personnel, disposal companies prior to any disposal activity. Always follow local, state, and federal regulations. Waste must be incinerated.

SECTION XIV**TRANSPORT INFORMATION**

Consult DOT 49 CFR 172.101 for transportation information.

SECTION XV**REGULATORY INFORMATION**

This MSDS has been prepared in accordance with federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health (2) Flammability (3) Reactivity (0) PPE (C)

Fire Hazard:	Yes
Pressure:	No
Reactivity:	No
Acute:	Yes
Chronic:	No

This product contains the following components listed as Extremely Hazardous Air Pollutants: NONE

SARA Section 302:

This product contains the following components listed as Extremely Hazardous Substances: NONE

SARA Section 311/312:

Hazard Classification: Fire

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

TSCA:

This product or its components are listed in or exempt from the TSCA inventory requirements.

New Jersey:

This product contains NO non-hazardous components subject to disclosure under New Jersey Right-To-Know legislation.

Pennsylvania:

This product contains NO non-hazardous components subject to disclosure under Pennsylvania Right-To-Know legislation.

California (Proposition 65):

This product contains NO substances known to the State of California to cause cancer.

SECTION XVI**OTHER INFORMATION**

The information and recommendations in this document are based on the best available to us at the time of preparation. We make no other warranty, expressed or implied, as to the correctness or completeness, or as the results or reliance of this product.