

# MATERIAL SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.  
Product Name: Superior Acrylic QuickSet Knife Grade  
Issue Date: 1/01/04  
MSDS Number: SUP-90135



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: SuperiorAcrylic QuickSet Knife Grade  
Product Description: Acrylic Adhesive & Filler  
Product Code: 90135  
Chemical Family: Acrylic

MANUFACTURER:  
Superior Stone Products, Inc.  
8580 Byron Commerce Drive  
Byron Center, MI 49315  
Customer Service: 800-493-5111

**24 Hour Emergency Telephone Number:**  
**CHEMTREC 800-424-9300**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>% by Weight</u>	<u>CAS Registry Number</u>
2-Methyl-2-Propenoic Acid, Methyl Ester	55 - 75	80-62-6
Poly (Methyl Metacrylate/Ethyl Acrylate)	10 - 30	9010-88-2
Trimethylolpropane Trimethacrylate	1 - 15	3290-92-4
Amorphous Fumed Silica	5 - 15	112945-52-5

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Supplier</u>
2-Methyl-2-Propenoic Acid, Methyl Ester	100 ppm	100 ppm	50 ppm
Amorphous Fumed Silica		10 mg/m <sup>3</sup>	

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: Liquid and vapors can cause moderate irritation (tears, blurred vision, and redness).

SKIN: May cause skin irritation. Can cause skin sensitization.

INGESTION: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

INHALATION: High concentration of vapors is irritant to respiratory tract and may lead to dizziness, headache and anaesthetic effects.

### SUBCHRONIC/CHRONICTOXICITY

CARCINOGENICITY: There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well-conducted animal studies, relevant mutagenicity studies and adequate epidemiological studies of relevant cohorts.

ROUTES OF ENTRY: Ingestion, inhalation and skin absorption.

CANCER STATEMENT: Unlikely to present a cancer hazard in man.

HEALTH HAZARDS: Prolonged and/or repeated exposure may lead to kidney, lung and liver damage.

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## 4. FIRST AID MEASURES

**EYES:** Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

**SKIN:** Remove contaminated clothing. Wash with soap and water. Consult a physician if any signs or symptoms described in this document occur. Wash contaminated clothing.

**INGESTION:** If swallowed, DO NOT INDUCE VOMITING (aspiration hazard). Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**INHALATION:** Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

## 5. FIRE FIGHTING MEASURES

Flashpoint and Method: 52.7F 11.5C

Flammable Limits: 2.1 to 12.5

Autoignition Temperature: 790F 421C

FLAMMABLE CLASS: 1B

**EXTINGUISHING MEDIA:** Water spray (by trained personnel), foam, dry chemical, or carbon dioxide.

**EXPLOSION HAZARDS:** At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapors may form an explosive mixture in air.

**FIRE FIGHTING PROCEDURES:** Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Call CHEMTREC Emergency Phone Number (24 hour): 800-424-9300

**RELEASE NOTES:** Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. Dispose of hazardous waste only in a certified facility for hazardous waste handling in accordance with federal, state, and local regulations. Cleaned-up material is RCRA Hazardous Waste.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Read and observe all precautions on product label. Refer to product label or manufacturers technical bulletins for the proper use and handling of this material. Do not use or store near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Do not weld, heat or drill container. Emptied container still contains hazardous or explosive vapor or liquid.

**HANDLING:** Do not breathe vapor or mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Close container after each use. Keep away from heat, sparks and flames. Storage Temperature: 35F minimum to 80F maximum.

**SHELF LIFE:** One (1) year when stored at room temperatures.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

### PERSONAL PROTECTION

**EYES AND FACE:** Wear safety glasses, face shield or chemical goggles.

**SKIN:** Wear appropriate impervious gloves to prevent skin contact.

**RESPIRATORY:** If a TLV or PEL listed in this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.

**PROTECTIVE CLOTHING:** Wear protective clothing to prevent skin contact.

**OTHER USE PRECAUTIONS:** Eye wash station and safety shower should be available for emergency situations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Odor: Characteristic strong, acrid odor.

Color: Colorless

Percent Volatile: 60-80

Vapor Pressure: 28 mmHg at 68F

Percent Volatile: 60-80

Vapor Pressure: 28 mmHg at 68F

Vapor Density: 3.5 (Air = 1)

Boiling Point: 213F

(VOC): 60 to 80

## 10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: Yes

**POLYMERIZATION:** Polymerization can occur. Conditions leading to polymerization are excessive heat and inadvertent addition of hardening paste. Contamination of product may also cause hazardous polymerization.

**CONDITIONS TO AVOID:** Heat and direct sunlight.

**HAZARDOUS DECOMPOSITION:** Heating of this material to decomposition may cause the emission of irritating, acrid fumes. Hazardous gases/vapors produced are carbon monoxide, carbon dioxide and smoke.

**INCOMPATIBLE MATERIALS:** Incompatible with strong oxidizing agents and reducing agents. Material is a strong solvent and can soften paints and rubber.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**Skin: FOR METHYL METHACRYLATE:** The skin absorption LD50 in rabbits is 35,500mg/kg (Very low toxicity by contact).

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Ingestion: FOR METHYL METHACRYLATE: The oral LD50 in rats is 7900mg/kg (Very low toxicity by ingestion).  
Inhalation: FOR METHYL METHACRYLATE: The 4-hour Inhalation LC50 in rats is 7093 ppm (Very low toxicity by inhalation).

GENERAL COMMENTS: Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys. Repeated exposure of animals by inhalation to levels at or above the occupational exposure level produces adverse effects on the nasal epithelium. There is no reason to believe that this product represents a carcinogenic or mutagenic hazard to man.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Environmental Fate and Distribution: Liquid with moderate volatility. Sparingly soluble in water. Product has low potential for bioaccumulation. The product is predicted to have mobility in soil.

Persistence and Degradation (for methyl methacrylate): Not readily biodegradable. Chemical Oxygen Demand (COD) is 88% (28 days).

Aquatic Toxicity: Low toxicity to fish. LC50 for fish is 100mg/L. Harmful to aquatic invertebrates. EC50 48 hour (Daphnia Magna) is 69 mg/L.

Effect on Effluent Treatment: Product is substantially removed in biological treatment processes.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: This material has been tested and found to have a flash point below 140 degF. If discarded, this material and containers should be treated as hazardous wastes (unless fully polymerized) based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container, requires compliance with applicable labeling, packaging, and record keeping standards. Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous wastes. Do not incinerate in closed containers. Do not allow material to contaminate ground water systems. For further information, contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (800-424-9346).

## 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Resin Solution

Hazard Class: 3

NA/UN Number: 1866

Packing Group: II

## 15. REGULATORY INFORMATION

### UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

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CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity: 1000 lbs

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: Listed

## CANADA

Canadian WHMIS Classification:

B2: Flammable Liquid

D2B: Toxic

F: Dangerously Reactive Material

## STATE REGULATIONS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substance lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

Substances on the Pennsylvania Hazardous Substance List present at a concentration of 1% or more (0.01% for special hazardous substances): Methyl Methacrylate

Substances Known to the State of California to Cause Cancer: NONE Known

Substances Known to the State of California to Cause Birth Defects or Other Reproductive Harm: NONE Known

Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Methyl Methacrylate

## 16. OTHER INFORMATION

NFPA CODES

Fire: 3 Health: 2 Reactivity: 2

HMIS CODES

Fire: 3 Health: 2 Reactivity: 2

**MANUFACTURER DISCLAIMER:** This information is provided in good faith and is correct to the best of Superior Stone Products' knowledge as of the date hereof; however, Superior Stone Products makes no representation as to its completeness or accuracy. Customers are encouraged to make their own determination as to the suitability of this product for their purpose prior to use. Superior Stone Products disclaims responsibility to damages of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES.