

# MATERIAL SAFETY DATA SHEET

**Fibergrate**

Composite Structures

## Sealant - Part B

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For use with 1/2 Pint Part A Sealant

### SECTION I - PRODUCT IDENTIFICATION & COMPANY IDENTIFICATION

ALL CHEMICAL EMERGENCIES: CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666 (For Canada, call collect)

INFORMATION TELEPHONE NO. 740-254-4311  
Product Name: LIQUID HARDENER  
Code: 30025, 30010, 30020, 93510, 97634, 30015, 30040, 28080, 28086, 97633,  
97639, 30045, 28096  
Synonym/Cross Reference: MEKP Catalyst  
Schedule B Number: 3815.90.0000-0

HMIS Rating: Health = 3 Flammability = 2 Reactivity = 2  
WHMIS Rating: B3, C, E, F  
NFPA Rating: Health = 3 Fire = 2 Reactivity = 2  
HMIS Rating: Refer to MSDS Section VIII, Protection Information

CATALYST SYSTEMS, INC  
U.S. Chemical & Plastics, Inc.  
Alco Industries Companies  
P O Box 88

2290 Zimmerman Rd SE  
Gnadenhutten, OH 44629-0088  
PH 740-254-4311 - FAX 740-254-9400

Preparation Date: 07/18/00  
Issue Date: 09/16/02  
Revision Date: 02/13/08

### SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>WGT%</u>	<u>CAS#</u>	<u>TLV/PEL</u>
Methyl Ethyl Ketone Peroxide	40 -35%	1338-23-4	ACGIH TLV 1.5 mg/m <sup>3</sup> (ceiling) NIOSH PEL 1.5 mg/m <sup>3</sup> (ceiling)
Hydrogen Peroxide	0 - 3%	7722-84-1	ACGIH TLV/TWA 1.4 mg/m <sup>3</sup> OSHA PEL/TWA 1.4 mg/m <sup>3</sup> NIOSH PEL/TWA 1.4 mg/m <sup>3</sup>
2,2,4 - Trimethylpentanediol- 1,3-disobutyrate	60 - 70%	6846-50-0	N/E
Water	0 - 2%	7732-18-5	N/AP
Methyl Ethyl Ketone	0 - 2%	78-93-3	OSHA PEL/TWA 590 mg/m <sup>3</sup> ACGIH TLV/TWA 590 mg/m <sup>3</sup>

Refer to Section VIII, subheading "Exposure Guidelines", for additional information concerning exposure limits.

### SECTION III - PHYSICAL DATA

Appearance: Clear or Red Liquid w/faint Ketone odor Volatiles by weight: Negligible  
Specific Gravity: 1.0 @ 25° C Solubility in water: Insoluble  
Vapor Pressure (mmHG): Not Determined VOC: Grams/Litre = Nil  
Boiling Point: Decomposes Lbs/Gallon = Nil  
Vapor Density: Heavier than Air SADT: 140° F/60° C  
Evaporation Rate (Ethyl Ether = 1): Slower than Ether

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 180° F/82° C Seta Flash Closed Cup  
Lower Flammable Limit %: N/E  
Upper Flammable Limit %: N/E  
Fire Extinguishing Media: Carbon Dioxide, Dry Chemical Foam  
Unusual Fire & Explosion Hazards: Closed containers exposed to high temperatures, such as fire conditions may rupture.

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## SECTION V- HEALTH HAZARD DATA

Overexposure Effects:

Acute Effects:

**EYES:** Contact with eyes can cause an immediate severe reaction and may result in loss of functional vision. May cause delayed keratitis.

**SKIN:** Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed through the skin.

**INHALATION:** Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.

**INDIGESTION:** Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Chronic Effects: Overexposure to this material has apparently been know to cause the following effets in lab animals: eye or skin damage, cytogenic effects.

Toxicity (for a similarly related product):

Dermal (rabbit)	LD50 4000 mg/Kg
Eyes	Draize Score = 76.3 Corrosive to eyes
Inhalation	LD50 17.0 mg/l (rate 4 hours)
Oral (rat)	LD50 1017 mg/Kg

Carcinogen: Yes \_\_\_ No X  
Teratogen: Yes \_\_\_ No X  
Mutagen: Yes \_\_\_ No X

Routes of Exposure: Skin, Inhalation

First Aid:

Inhalation - If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.

Skin - For skin contact, wash promptly with excess soap and water. Consult a physician if irritation or redness occurs.

Eyes - For eye contact, flush promptly with excess water for at least fifteen minutes. Get immediate medical attention.

Ingestion - If ingested, do not induce vomiting. Give victim a glass of water. Get immediate medical attention.

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## SECTION VI - REACTIVITY DATA

Stability: Stable at ambient temperatures, but may decompose at temperatures above 131° F.  
Conditions to Avoid: Open flames, sparks, heat, electrical and static discharge.  
Incompatibility/Materials to Avoid: Strong acids, alkalis, oxidizers.  
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and carbon.  
Hazardous Polymerization: Will not occur.

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## SECTION VII - SPILL AND DISPOSAL PROCEDURE

Spills, Leak or Release: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor.  
Contain spill with inert absorbent.  
Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

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## SECTION VIII - PROTECTION INFORMATION

Respiratory Protection: If component TLV limits are exceeded, use NIOSH/OSHA approved respirator to remove vapors.  
Use an air-supplied respirator if necessary.  
Ventilation: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.  
Skin: Prevent exposure from liquid or spray by use of rubber gloves, permeation-resistant clothing, footwear; products may irritate skin or be absorbed through the skin.  
Eye Protection: Safety glasses or goggles with splash guards or side shields.  
Other Protective Equipment: Wear protective clothing as required to prevent all direct contact.

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## SECTION IX - HANDLING AND STORAGE PRECAUTIONS

Storage and Handling: Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100° F/38° C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis and oxidizers. Recommended maximum storage temperature, to maintain product quality, do not store above 86° F/30° C.

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## SECTION X - ADDITIONAL INFORMATION

Shipping Information: Please comply with DOT regulations in USA.  
HMIS Rating: Health = 3 Flammability = 2 Reactivity = 2  
(4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant)  
WHMIS Rating: B3, C, E, F  
NFPA Rating: Health = 3 Fire = 2 Reactivity = 2  
PPE: Refer to MSDS Section VIII, Protection Information.

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## SECTION XI - REGULATORY INFORMATION

California Proposition 65: Trace amounts of some chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.

Section 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

Chemical Name	CAS #	% By WGT
Methyl Ethyl Ketone Peroxide	1338-23-4	40 - 35%

TSCA Section 8(b) - Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) Inventory.

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This information must be included in all MSDS's that are copied and distributed for this chemical.

### Abbreviations

IARC = International Agency for Research on Cancer  
ACGIH = American Conference of Government Industrial Hygienists  
NIOSH = National Institute of Occupational Safety and Health  
TLV = Threshold Limit Value  
PEL = Permissible Emission Level  
DOT = Department of Transportation  
NTP = National Toxicology Program  
N/AV = Not Available  
N/AP = Not Applicable  
N/E = Not Established  
N/D = Not Determined

### MSDS Preparation Information:

Prepared By: Catalyst Systems Inc.  
US Chemical & Plastics, Inc.  
Alco Industries Companies  
P.O. Box 88  
2290 Zimmerman Road, SE  
Gnadenhutten, OH 44629  
Tel: (740) 254-4311 Fax: (740) 254-9400

Prepared On: 7/18/00  
Supersedes: 1/25/00

The information in the Material Safety Data Sheet has been compiled from the experience of Catalyst Systems Inc. (US Chemical & Plastics / Alco Industries Companies) and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. Catalyst Systems Inc. (US Chemical & Plastics / Alco Industries Companies) reserves the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company or Fibergrate Composite Structures Inc. to make sure that the MSDS is the latest one issued.