

CATALYST SYSTEMS, INC
U S Chemical & Plastics, Inc
Alco Industries Companies
PO Box 88
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PH 740-254-4311 - FAX 330-830-6005

For Chemical Emergency

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

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SECTION I - IDENTIFICATION OF PRODUCT
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PRODUCT NAME: LIQUID HARDENER/LIQUID HARDENER REACTOR
PRODUCT CODE: (93510), 30010, 30015, 30018, 30020, 30021, 30022,
30025, 30048, 97634
SYNONYM/CROSS REFERENCE: KP Catalyst
SCHEDULE B NUMBER: 3815.90.0000-0

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SECTION II - HAZARDOUS INGREDIENTS
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INGREDIENTS	WGT%	CAS #	TLV/PEL
Methyl Ethyl Ketone Peroxide	30-35%	1338-23-4	ACGIH TLV 1.5 mg/m ³ (ceiling) OSHA PEL 1.5 mg/m ³ (ceiling)
Hydrogen Peroxide	0-5%	7722-84-1	ACGIH TLV 1.4 mg/m ³ OSHA PEL 1.4 mg/m ³
2,2,4-Trimethylpentanediol- 1,3-diisobutyrate	60-70%	6846-50-0	N/E

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SECTION III - PHYSICAL DATA
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APPEARANCE: Clear or red liquid with faint ketone odor
SPECIFIC GRAVITY: 1.17 @ 25 C
VAPOR PRESSURE (mmHG): N/D
BOILING POINT: Decomposes
VAPOR DENSITY: Heavier than air
EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether
VOLATILES BY WEIGHT: Negligible
SOLUBILITY IN WATER: Soluble
VOC: Grams/Litre = Nil
Lbs/Gallon = Nil

SECTION IV - FIRE AND EXPLOSION 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

SPECIAL FIRE FIGHTING PROCEDURES: Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers exposed to high temperatures, such as fire conditions may rupture.

SECTION V - HEALTH HAZARD/TOXICOLOGICAL PROPERTIES

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 thru 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.

INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

CHRONIC EFFECTS:

Overexposure to this material has apparently been known to cause the following effects in lab animals: eye or skin damage.

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 soap and excess water.

EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.

INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

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SECTION VI - REACTIVITY DATA

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STABILITY: Stable

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

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SPILLS, LEAK OR RELEASE: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent.

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

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SECTION VIII - PROTECTION INFORMATION

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RESPIRATORY PROTECTION: If component TLV limits are exceeded, use NIOSH/MSHA 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.

PROTECTIVE GLOVES: To prevent prolonged exposure use rubber gloves; solvents may 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 skin contact.

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SECTION IX - HANDLING AND STORAGE PRECAUTIONS

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STORAGE AND HANDLING: Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100F/38C. 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.

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SECTION X - ADDITIONAL INFORMATION

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SHIPPING INFORMATION: Please comply with DOT regulations in USA

HMIS RATING:

Health	3	4 = Extreme
Fire	2	3 = High
Reactivity	2	2 = Moderate
		1 = Slight
		0 = Insignificant

Personal Protection - See Section VIII

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CALIFORNIA PROPOSITION 65:

This product does not contain 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:

<u>CHEMICAL NAME</u>	<u>CAS</u>	<u>% BY WGT</u>
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N/A

THIS INFORMATION MUST BE INCLUDED IN ALL MSDSs THAT ARE COPIED AND DISTRIBUTED FOR THIS CHEMICAL

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ABBREVIATIONS

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IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental 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

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SUPERSEDES October 29, 2001

The information in the Material Safety Data Sheet has been compiled from our experience 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. We reserve 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 to make sure that the MSDS is the latest one issued.