

SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200 AND SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 PUBLIC LAW 99-499. STANDARD SHOULD BE CONSULTED FOR SPECIFIC REQUIREMENTS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME OF PRODUCT: XUPER COOL
SYNONYMS: EUTECTIC XUPER COOL 5000236
PRODUCT CODES: 465000237

**MANUFACTURER/
SUPPLIER:** EUTECTIC CORPORATION
N94 W14355 GARWIN MACE DRIVE
MENOMONEE FALLS, WI 53051 USA

TELEPHONE NUMBER: (262) 532-4677
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EUTECTIC WEBSITE: www.eutectic.com

PRODUCT USE: Chemical Aid / Product for Welding

SECTION 2: HAZARDS IDENTIFICATION

This product is considered non-explosive: nevertheless explosive vapor/air mixture may be generated.

EMERGENCY OVERVIEW: Liquid. Irritating to eyes, skin, and respiratory tract.

ROUTES OF ENTRY: Primary route of entry is the respiratory system. Other possible routes are eyes, ingestion, and/or skin contact.

POTENTIAL HEALTH EFFECTS:

EYES: Irritating to eyes.
SKIN: Frequent or prolonged contact may irritate skin.
INGESTION: Toxic if swallowed.
INHALATION: Can be harmful if inhaled. Causes respiratory tract irritation.

HAZARDS:

R22 Harmful if swallowed.

Package Labeling:

Although this product does not require a hazard warning label in all countries, we recommend that the safety advice should be observed:

GHS pictograms: GHS 07



Contains: Glycol

Hazard statements

H302 Harmful if swallowed.

Precautionary statements

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.
- P301 + P312 If swallowed, call a Poison Center or doctor/physician if you feel unwell
- P314 Get medical advice/attention if you feel unwell.
- P501 Dispose of contents/container to waste treatment facility in accordance with local and national regulations.

CARCINOGENICITY - NTP : No ; IARC : No ; OSHA : No

WARNING: avoid breathing fumes and gases; they may be dangerous to your health. Always use adequate ventilation and use appropriate personal protection equipment.

Before using this product, contact your doctor to determine if exposure to product or use of this product will aggravate your medical conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

IMPORTANT: This section covers the materials from which these products are manufactured. Any of the chemicals or compounds subject to reporting under Title III, in Section 313, of the Superfund Amendments and Reauthorization Act (SARA) are marked by the symbol #.

Exposure Limit (mg/m³)

INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH -TLV	Percent ingredients (by weight)
Ethane-1,2-diol #	107-21-1	Not listed	100 (ceiling)	50 - 100

CAS / EINECS NUMBER / HAZARD CLASSIFICATION FOR ABOVE INGREDIENTS

INGREDIENTS	CAS NUMBER	EINECS NUMBER	Hazard Classification per ECD 67/548/EEC
Ethane-1,2-diol #	107-21-1	203-473-3	Acute Tox. 4: H302 Xn R22

Exposure limits are subject to change. Contact ACGIH and OSHA for current values. See Section 16 for European Council Directive 67/548/EEC R-phrases

SECTION 4: FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES: Call for medical aid and inform them of the ingredients from Section 3. Employ first aid techniques recommended by The American Red Cross.

- INHALATION:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention.
- INGESTION:** Do NOT induce vomiting. Rinse mouth with water. Get medical attention immediately.
- SKIN CONTACT:** Wash off with soap and plenty of water. If on clothing, remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.
- EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
- GENERAL:** Remove contaminated and soaked clothing immediately and flush skin with water. In the event of persistent symptoms, get medical help.

SECTION 5: FIRE FIGHTING MEASURES

This product is considered non-explosive: nevertheless explosive vapor/air mixture may be generated.

EXTINGUISHING MEDIA: water, foam, sand, carbon dioxide, or dry chemical. Do **NOT** use full water jet.

FIRE FIGHTING: Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations. Keep unopened containers cool by spraying with water.

SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, use of full protective equipment required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No data available.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides are expected to be the primary hazardous combustion product.

NFPA HAZARD CLASSIFICATION:

Health: 2 Flammability: 1 Reactivity: 0 Special Hazard -----

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Contain or dike area to contain spill. Ventilate area with fresh air. If in a confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for spills (sand, silica gel, acid binder, etc.). Place absorbent in proper waste containers and dispose of in accordance with Federal, State, and Local regulations.

PERSONAL PRECAUTIONS: Wear head, hand, and body protection that help to prevent contact with spill. Use caution when working around electrical equipment and turn off the power to the equipment before clean up of spill. Ensure proper ventilation before clean-up.

ENVIRONMENTAL PRECAUTIONS: Do not discharge into the drain or bodies of water. Take precautions to prevent contamination of ground or surface waters.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid exposure to product; do not ingest and avoid contact with eyes. Some individuals can develop an allergic reaction to certain materials. Do not eat, drink, or smoke when using this product. Wash thoroughly after using this product.

STORAGE: Keep material tightly sealed and stored in original, labeled container at room temperature in a cool dry area and in well ventilated area. Keep away from moisture – product is hygroscopic. Store away from oxidizing agents, food, drink, and animal feeding stuffs. Keep product out of the reach of children.

OTHER PRECAUTIONS: Professionally wash contaminated clothing before reuse. Avoid exposure to vapors - existing lung disorders will have increased toxic susceptibility.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



Read and understand the manufacturer's instructions and precautionary label on this product.

ENGINEERING CONTROLS: Proper ventilation **must** be maintained.

VENTILATION: None normally needed. For enclosed areas, the use of fans or other mechanical ventilation is recommended. Use half or full-face piece organic vapor chemical cartridge or canister respirator when concentrations exceed the permissible exposure limits. Use self contained breathing apparatus (SCBA) or full piece airline respirator with auxiliary SCBA operated in the pressure-demand mode for emergencies and for all work performed in storage vessels, poorly ventilated rooms, and other confined areas.

RESPIRATORY PROTECTION: If the workstation is not properly ventilated to exhaust all fumes and vapors, use a NIOSH approved respirator. Monitor fume levels and keep exposure below the TLV's.

EYE PROTECTION: Use chemical safety goggles and / or full face shield where splashing is possible. Maintain eye wash fountains and quick-drench facilities in work area.

PROTECTIVE CLOTHING: Wear head, hand, and body protection that help to prevent injury; including rubber apron and rubber gloves. The type of protective equipment must be selected according to the concentration and amount of the substance used and method used.

SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves (Nitrile rubber, minimum 0.11 layer thickness), lab coat, apron or coveralls, as appropriate, to prevent skin contact.

WORK HYGIENIC PRACTICES: Professionally wash contaminated clothing before re-use. Food and drink should not be consumed or neither tobacco products used, nor cosmetics applied in area where flux exposures are possible.

EXPOSURE GUIDELINES Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. See Section 3 for ingredients.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: liquid with mild odor

pH-Value (at 20 °C): 6 – 8

LOWER EXPLOSION LIMITS: 1.8 % vol. %

DENSITY (at 20 °C): 1.06 g/cm³

BOILING POINT: > 212 °F (>100 °C)

FLASH POINT: 232 °F (111 °C) closed cup

UPPER EXPLOSION LIMITS: 12.8 % vol. %

SOLUBILITY IN WATER: 100 % g/L

SECTION 10: STABILITY AND REACTIVITY

GENERAL: This item is only intended for industrial applications.

STABILITY: Product is chemically stable under recommended storage conditions.

CONDITIONS TO AVOID: Flames, sparks, heat and moisture. Heating can release vapors that can be ignited.

MATERIALS TO AVOID: Strong acids, strong oxidizing agents, strong bases, aldehydes, aluminum.

HAZARDOUS POLYMERIZATION: Will not occur.

REACTIVITY: None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon oxides are expected to be generated under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE – use of this product can create one or more of the following health hazards:

VAPOR EXPOSURE can be dangerous to your health.

PRIMARY ROUTE OF ENTRY is the respiratory system. Other possible routes are eyes, ingestion, and/or skin contact.

PREEXISTING respiratory or allergic conditions may be aggravated in some individuals (i.e. asthma, emphysema).

Harmful by ingestion. Irritant.

TARGET ORGANS: harmful if ingested: Cardiovascular system, central nervous system, eyes, kidney, liver. Teratogen. If ingested, symptoms include: nausea vomiting, abdominal pain, lassitude (weakness, exhaustion), dizziness, stupor, convulsions, central nervous system disorders, and depression. Renal failure and brain injury may result.

SHORT TERM (ACUTE) OVEREXPOSURE Exposure to vapors may irritate respiratory passages. Skin contact with product may cause irritation. Harmful if swallowed. Eyes may become irritated. Symptoms to overexposure include irritation to eyes, skin, nose, and throat.

LONG TERM (CHRONIC) OVEREXPOSURE – Oral ingestion may cause liver and kidney effects and nervous system disorder and may aggravate existing liver, kidney, respiratory disorders. Overexposure may damage the developing fetus.

Monitor fume levels when using this product.

SECTION 12: ECOLOGICAL INFORMATION

CONTAMINATED PACKAGING: Empty containers should be taken for local recycling, recovery, or waste disposal and should be disposed of in accordance with Federal, State, and Local regulations.

SPILLS: Contain spill, absorb, sweep up and dispose of in accordance with Federal, State, and Local regulations. Do not flush into waterways.

SECTION 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of any waste residues and containers in accordance with Federal, State, and Local regulations through a licensed professional waste disposal service.

SECTION 14: TRANSPORTATION INFORMATION

DOMESTIC TRANSPORT REGULATIONS (USA): DOT - not regulated.

DOMESTIC TRANSPORT REGULATIONS (CANADA): TDG - not regulated.

DOMESTIC TRANSPORT REGULATIONS (MEXICO): MEX - not regulated.

INTERNATIONAL TRANSPORT REGULATIONS:

ICAO – not regulated

IATA – not regulated

IMDG / IMO – not regulated

OTHER AGENCIES: No international regulations or restrictions are applicable.

Other regulations may apply when shipping this material and are in the process of change or update, verify all applicable regulations prior to shipment either domestically, internationally via air, ground, or water.

Handle with care to avoid damaging the product and keep product dry. Do not remove product identification label or warning label. Do not store next to food, drink, or animal goods. Keep away from moisture.

SECTION 15: REGULATORY INFORMATION

Read and understand the manufacturer's instructions and precautionary label on this product.

U.S. EPA TSCA (TOXIC SUBSTANCE CONTROL ACT): All constituents of these products are on the TSCA inventory list or are excluded from listing.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to our Local Emergency Planning Committee.

EPCRA/SARA TITLE III 313 TOXIC CHEMICALS:

The following metallic components are listed as SARA 313 “TOXIC CHEMICALS” and are potentially subject to annual SARA 313 reporting. See Section 3 to determine if the ingredient is present and for the percent.

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>DISCLOSURE THRESHOLD</u>
Chromium & chromium compounds	7440-47-3	1.0 % de minimis concentration
Chromium VI	Not listed	0.1 % de minimis concentration
Barium compounds	Not listed	1.0 % de minimis concentration
Cobalt	7440-48-4	0.1 % de minimis concentration
Copper	7440-50-8	1.0 % de minimis concentration
Manganese	7439-96-5	1.0 % de minimis concentration
Nickel	7440-02-0	0.1 % de minimis concentration
Aluminum (fume or dust)	7429-90-5	1.0 % de minimis concentration
Silver	7440-22-4	1.0 % de minimis concentration
Ethane-1,2-diol (ethylene glycol)	107-21-1	1.0 % de minimis concentration

International rules may vary and the appropriate regulations should be followed as defined by the country where the product is used.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been revised due to modifications to several paragraphs and/or new format.

Prepared by: Eutectic Corporation, USA

Ethane-1,2-diol

R - Phrases

R22 – Harmful if swallowed

S – Phrases

S36/37 Wear suitable protective clothing and gloves

SUPPLEMENTAL INFORMATION – DEFINITIONS:

IARC: International Agency for the Research on Cancer
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: U.S. Occupational Safety and Health Administration
 ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstracts Service Registry Number
 EINECS: European Inventory of Existing Chemical Substances

PEL: Permissible Exposure Limit
 NTP: National Toxicology Program
 TLV: Threshold Limit Value
 ECD: European Council Directive
 GHS: Globally Harmonized System

The information in this SDS was obtained from sources we believe are reliable. However, this information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability of loss, damage, or expense arising from it or any way connected with the handling, storage, use, or disposal of the product.