

# MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION NUMBER: (480) 607-9593

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## I - Product Identification

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### Metalworking Coolant & Lube

**PRODUCT CODE:** 0303

**CHEMICAL FORMULATION:** Synthetic cutting fluid.

**NFPA HAZARD IDENTIFICATION SYSTEM:** **HEALTH:** 1

**FLAMMABILITY:** 1

**REACTIVITY:** 0

**HAZARD RATING:** 4 - Extreme;

3 - High;

2 - Moderate;

1 - Slight;

0 - Insignificant

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## II - Hazardous Ingredients

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Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u> <u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	
Triethanolamine	1.00-10.0	N/E	N/E	N	N	N	102-71-6
Alkanolamine	1.00-10.0	N/E	N/E	N	N	N	Mixture
Diethanolamine	< 2.00	3 ppm	2 mg/m <sup>3</sup> (skin)	Y	N	Y	111-42-2

Key: **PEL:** Permissible Exposure Limit    **TLV:** Threshold Limit Value    **C:** Ceiling level    **STEL:** Short Term Exposure Limit  
**N/A:** Not Applicable    **N/D:** Not Determined    **N/E:** Not Established    **Y:** Yes    **N:** No  
**302:** CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
**355:** SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
**372:** SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

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## III - Physical Data

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**BOILING POINT (°F):** N/D

**SPECIFIC GRAVITY (WATER = 1):** 1.06

**VAPOR PRESSURE (mm Hg):** N/D

**VOC CONTENT (% by weight):** <1.0

**VAPOR DENSITY (AIR = 1):** N/D

**EVAPORATION RATE (WATER = 1):** N/D

**SOLUBILITY IN WATER:** Soluble

**pH:** 9.50-10.20

**APPEARANCE AND ODOR:** Clear, golden-brown liquid, slight odor.

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## IV - Fire and Explosion Hazard Data

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**FLASH POINT (°F):** > 200

**(TEST METHOD):**

**FLAMMABLE LIMITS IN AIR (VOLUME %)**

**UPPER:** N/D

**LOWER:** N/D

**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** None

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Acids and strong oxidizers.**CONDITIONS TO AVOID:** None**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon and nitrogen.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**    **INHALATION:**            **EYE CONTACT:** X            **SKIN CONTACT:** X            **INGESTION:** X  
**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Moderate to severe irritation, tearing and redness. Possible corneal injury.**IF ON SKIN:** Irritation and redness with prolonged exposure.**IF SWALLOWED:** Irritation of gastrointestinal tract, nausea, vomiting.**IF INHALED:** May cause irritation to respiratory tract, dizziness.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Wash with soap and water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person 1 to 2 glasses of water. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.**IF INHALED:** Remove person to fresh air. If irritation persists, obtain medical attention.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses.**OTHER PROTECTIVE EQUIPMENT:** Protective clothing.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat or open flame. Keep container tightly closed when not in use. Keep away from acids.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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