



SECTION 1: Product and Company Identification

Product Name: OPTION 1
Recommended Use: Biodegradable metal cutting fluid

Manufacturer Information:

Relton Corporation-Chemical Division Phone: (800)-423-1505
 317 Rolyn Place Emergency Number (24 hours):
 Arcadia, CA 91007-2838 CHEMTREC 800-424-9300

SECTION 2: Hazards Identification

GHS Classification: Sensitization, skin: Category 1, H317
 Carcinogenicity: Category 2, H 351

GHS Label Elements:



Signal Word: Warning
Hazard Statements:
 H317 May cause an allergic skin reaction
 H351 Suspected of causing cancer

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS#	%
Triethanolamine	102-71-6	5-10
Diethanolamine	111-42-2	<0.1

Note: Triethanolamine is neutralized with fatty acids to form alkanolamide soaps

SECTION 4: First Aid Measures

General

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effects occur. When possible bring along copy of label and SDS to health professional.

Inhalation: May cause mild respiratory tract irritation. Remove individual to fresh air. If breathing is difficult give oxygen.

Skin Contact: Flush the affected area with water for 15 minutes minimum. Remove exposed or contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.

Eye Contact: Remove contact lenses if present. Rinse eyes thoroughly with water for 15 minutes minimum. Seek medical attention immediately.

Ingestion: If conscious give one cup of water or milk if available and transport to a medical facility. Do not give anything by mouth to an unconscious person.

Most important symptoms acute or delayed: Not available

Recommendations for immediate medical care and special treatment: Not available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Carbon dioxide, extinguishing powder or water spray.

Unsuitable extinguishing media: Not available

Specific hazards arising during fire: Combustion may generate carbon monoxide, carbon dioxide, oxides of nitrogen

Firefighting equipment: Firefighters should wear suitable protective equipment

Firefighting instructions: Evacuate personnel to a safe area. Firefighters should use self contained breathing equipment and protective clothing. Keep containers cool with water spray.

SECTION 6: Accidental Release Measures

Personal Precautions: Wear appropriate protective equipment and clothing during clean up. Keep unprotected persons away.

Environmental Precautions Do not allow product to enter sewers, surface or ground waters.

Methods and materials for containment and cleanup: Contain and recover liquid when possible. Absorb with suitable absorbent and place in a chemical waste container for proper disposal (see Section 13, Disposal Considerations).

SECTION 7: Handling and Storage

Precautions for safe handling: As with all chemical products, avoid contact and wash thoroughly after handling. Do not eat, drink or smoke while using this product. Use only in well-ventilated areas. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage including incompatibilities: All personnel who handle this product should be trained in its safe handling. Store tightly closed in cool, dry, ventilated area. Keep out of direct sunlight and away from heat and incompatible materials. Avoid contact with acids, oxidizing agents, and caustics and nitrites.
WARNING: Do not mix with sodium nitrite or any nitrosating agent as potentially carcinogenic nitrosamines may be formed.

SECTION 8: Exposure Controls/Personal Protection

Exposure limit values

Material	CAS#	List	Type	Value
Triethanolamine	102-71-6	ACGIH	TWA	5 mg/m ³
N,N-Diethanolamine	111-42-2	ACGIH	TWA	5 mg/m ³
		NIOSH	REL	3 ppm (15mg/m ³)
		ACGIH	TWA	1 mg/m ³

Appropriate Engineering Controls: Provide sufficient mechanical (general/and or local exhaust) ventilation to maintain exposure below exposure guidelines, if applicable, or below levels that cause known, suspected, or adverse effects.

Personal Protective Measures

Eye/face protection: Use chemical goggles or full face shield.

Hand protection: Use chemically-resistant gloves.

Respiratory protection: Not required under normal conditions of use. If airborne concentrations exceed applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards: Not available

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Eyewash station and safety shower should be in vicinity of work area.

SECTION 9: Physical and Chemical Properties

Appearance: Bluish-green liquid
Odor: Faint
Odor threshold: Not available
pH (5%soln): 7.6
Solubility in water: Soluble
Viscosity: Not available
Specific gravity: 1.03
Melting point: Not available
Freezing point: Not available
Initial boiling point and boiling range: Not available
Flash point: Not available
Evaporation rate: Not available
Flammability (solid, gas): Not available
Upper/Lower flammability or explosive limits (%)
 Flammability limit-lower: Not available
 Flammability limit-upper: Not available
 Explosive limit-lower: Not available
 Explosive limit-upper: Not available
Vapor pressure Not available
Vapor density Not available
Partition coefficient (octanol:water) Not available
Auto-ignition temperature Not available
Decomposition temperature Not available

SECTION 10: Stability and Reactivity

Reactivity: No reactivity hazards are known.

Chemical Stability: Material is stable under normal conditions of storage and handling.

Possibility of hazardous reactions: No hazardous reactions are known under normal conditions of use.

Conditions to avoid: Keep away from heat, sparks, open flames. Protect from freezing.

Materials to avoid: Keep away from incompatible materials (strong acids, oxidizing agents, caustics) and nitrites.

Hazardous decomposition products: May include carbon monoxide, carbon dioxide, oxides of nitrogen

SECTION 11: Toxicological Information

Acute Toxicity:

Triethanolamine
Ingestion LD50, rat, 6400 mg/kg
Dermal LD 50, rabbit, greater than 2000 mg/kg

Skin:	May cause skin irritation. May cause allergic skin reaction.
Eyes:	May cause eye irritation.
Inhalation:	May cause mild irritation of the respiratory tract with prolonged exposure.
Ingestion:	May cause moderate to severe irritation of the mouth, throat and stomach.
Delayed and immediate effects of exposure:	Not available.
Carcinogenicity:	Product contains traces of Diethanolamine (111-42-2):
IARC:	N,N-Diethanolamine: Possibly carcinogenic to humans, 2B
ACGIH:	N,N-Diethanolamine: Confirmed animal carcinogen with unknown relevance to humans, Group A3

SECTION 12: Ecological Information

Ecotoxicity:	The product is not classified as environmentally hazardous. Triethanolamine and fatty acid components are biodegradable
Bioaccumulation potential:	Not available.
Mobility:	Not available.
Other adverse effects:	Not available.

SECTION 13: Disposal Considerations

Disposal instructions:	Waste disposal must be in accordance with appropriate US Federal, State and Local regulations.
Disposal of contaminated containers or packaging:	Dispose of as unused product.

SECTION 14: Transportation Information

UN Number:	Not regulated
UN proper shipping name:	Compounds, cleaning liquids, not regulated
Transport hazard class:	Not regulated
Packing group:	Not regulated
Marine pollutant:	No

SECTION 15: Regulatory Information

Toxic Substances Control Act (TSCA):	All components of this product are on the TSCA Inventory or are exempt from reporting requirements.
SARA 302 Extremely Hazardous Substances:	No
SARA 311/312 Classification:	
Immediate hazard	Yes
Delayed hazard	No
Fire hazard	No
Reactive hazard	No
Pressure hazard	No
SARA 313 Components:	Diethanolamine RQ=100 lb

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains a chemical known to the State of California to cause cancer

Component	CAS#	Amount
N,N-Diethanolamine	111-42-2	< 0.1%

HMIS Information:

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

**SECTION 16: Other Information**

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Prepared by: Dr. William M. Fruscella, Consulting Chemist

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