



SAFETY DATA SHEET

SECTION 1: Product and Company Identification

Product Name: OPTION 1
Recommended Use: Water-based, synthetic metal working and cutting fluid

Manufacturer Information:

Relton Corporation-Chemical Division
317 Rolyn Place
Arcadia, CA 91007-2838

Phone: (800)-423-1505
Emergency Number (24 hours):
CHEMTREC 800-424-9300

SECTION 2: Hazards Identification

GHS Classification: Serious eye damage/eye irritation: Category 2B, H320
Reproductive toxicity Category 2 : H361

GHS Label Elements:



Signal Word: Warning

Hazard Statements:

H320 Causes eye irritation
H361 Suspected of damaging fertility or the unborn child

Precautionary Statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate waste treatment plant.

Hazards not otherwise classified (HNOC): Not listed

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS#	%	
Triethanolamine	102-71-6	5-10	*

The remaining ingredients are considered non hazardous or are below reporting levels

*The exact percentage of composition has been withheld as a trade secret

SECTION 4: First Aid Measures

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 develops.
Eye Contact:	Remove contact lenses if present. Rinse eyes thoroughly with water for 15 minutes minimum. Seek medical attention if eye irritation develops or persists.
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:	Slightly combustible. Use carbon dioxide, extinguishing powder or foam. Avoid water spray.
Unsuitable extinguishing media:	Not available
Specific hazards arising during fire:	May include carbon monoxide, carbon dioxide, and 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. Pregnant or breast-feeding women must not handle this product.
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.

SECTION 8: Exposure Controls/Personal Protection

Exposure limit values

Material	CAS#	List	Type	Value
Triethanolamine	102-71-6	ACGIH TLV	TWA	5 mg/m3
Diethanolamine	111-42-2	ACGIH	TWA	1 mg/m3(inhalable fraction)
		NISOH REL	TWA	3 ppm (15 mg/m3)
		OSHA P0	TWA	3 ppm (15 mg/m3)

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:	Blue green liquid
Odor:	Slight
Odor threshold:	Not available
pH:	7-8
Solubility in water:	Insoluble
Viscosity:	Not available
Specific Gravity @ 70° F:	1.01
Melting point:	Not available
Freezing point:	Not available
VOC Content (ASTM E-1868-10):	22.0 g/L AQMD SUPER COMPLIANT AT RECOMMENDED DILUTIONS
Initial boiling point and boiling range:	Not available
Flash point:	Not determined
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 determined
Vapor density	Heavier than air
Partition coefficient (octanol:water)	Not available
Auto-ignition temperature	Not available
Decomposition 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:	Do not store with strong oxidizing agents. Keep away from heat, sparks, open flames, or all sources of ignition.
Hazardous decomposition products:	May include carbon monoxide, carbon dioxide, and oxides of nitrogen

SECTION 11: Toxicological Information

Acute Toxicity:

Test	Species	Test Results
Triethanolamine (102-71-6)		
Dermal Acute LD 50	Rabbit	>20000 mg/kg
Oral Acute LD 50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
Diethanolamine (111-42-2)		
Oral Acute LD 50	Rat	1600 mg/kg

Skin: May cause minor skin irritation.

Eyes: Causes eye irritation.

Inhalation: May cause mild irritation of the respiratory tract with prolonged exposure.

Ingestion: Ingestion may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

Delayed and immediate effects of exposure: Not available.

Classification	Category	Hazard Description
Acute toxicity (oral)	Not classified	Not applicable
Acute toxicity (dermal)	Not classified	Not applicable
Acute toxicity (inhalation)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
STOT -single exposure	Not classified	Not applicable
STOT-repeated exposure	Not classified	Not applicable
Serious eye damage/eye irritation	2B	Causes eye irritation
Respiratory sensitization	Not classified	Not applicable
Skin sensitization	1	May cause allergic skin reaction
Carcinogenicity	Not classified	Not applicable
Aspiration hazard	Not classified	Not applicable
Reproductive toxicity	2	Suspected of damaging fertility or the unborn child

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

OSHA:

No ingredient is considered to be carcinogenic.

NTP:

No ingredient is considered to be carcinogenic.

SECTION 12: Ecological Information

Ecotoxicity:

Not expected to cause serious aquatic toxicity. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ingredient	CAS No.	Fish	Algae/Aquatic plants	Crustacea
Triethanolamine	102-71-6	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through	169: 96 h Desmodesmus subspicatus mg/L EC50 216: 72 h Desmodesmus subspicatus mg/L	1386: 24 h Daphnia magna mg/L EC50

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

DOT

Not regulated as dangerous goods

IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

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	Yes
Fire hazard	No
Reactive hazard	No
Pressure hazard	No

SARA 313 Components: No

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: Diethanolamine (111-42-2)

HMIS Information:

Health	1
Flammability	1
Reactivity	1
Personal Protection	B

NFPA Information:



SECTION 16: Other Information

Issue date: March 30, 2015
Revision date: February 26, 2019
Version: 3.0

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