



SAFETY DATA SHEET

SECTION 1: Product and Company Identification

Product Name: REL-SAW
Recommended Use: Band saw cutting fluid concentrate

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:

Skin corrosion/irritation: Category 2, H315
Serious eye damage/eye irritation: Category 2A, H319
Sensitization, skin: Category 1, H317

GHS Label Elements:



Signal Word: Warning

Hazard Statements:

H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage: Store away from incompatible materials.

Disposal: Not listed

Hazards not otherwise classified (HNOC): Not listed

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS#	%*
Diethylene glycol	111-46-6	≤5
Diisopropanolamine	110-97-4	<3
Hexahydro-1,3,5- Tris(2-Hydroxyethyl)-s-Triazine	4719-04-4	1-3
Triethanolamine	102-71-6	3-5
Ethanolamine	141-43-5	<3
Hexylene glycol	107-41-5	<3

*The exact percentage of composition has been withheld as a trade secret
The identities of one or more ingredients have been withheld

SECTION 4: First Aid Measures

Inhalation:	Remove individual to fresh air and keep at rest in a position comfortable for breathing. 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:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Seek medical attention if irritation develops and persists.
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.
Most important symptoms acute or delayed:	Serious eye irritation, skin irritation, may cause redness and pain. May cause allergic skin reaction, dermatitis, rash.
Recommendations for immediate medical care and special treatment:	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use carbon dioxide, extinguishing powder or foam. Avoid 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, caustics, and nitrites.

SECTION 8: Exposure Controls/Personal Protection

Exposure limit values

Material	CAS#	List	Type	Value
Ethanolamine	141-43-5	OSHA Table Z-1 ACGIH TLV ACGIH	PEL STEL TWA	6mg/m3 6ppm 3ppm
Hexylene glycol	107-41-5	OSHA Table Z-1 ACGIH TLV NIOSH	PEL STEL Ceiling	6mg/m3 10mg/m3 aerosol, inhalable 125 mg/m3
Triethanolamine	102-71-6	ACGIH TLV	TWA	5 mg/m3
Diethylene glycol	111-46-6	US AIHA- WEEL	TWA	10 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.

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: Amber colored oily liquid
Odor: Slight
Odor threshold: Not available
pH: 10-11
Solubility in water: Insoluble
Viscosity: Not available
Specific Gravity @ 70° F: 1.02
Melting point: Not available
Freezing point: Not available
VOC Content (ASTM E-1868-10): 65.9 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. Do not mix product with nitrites as carcinogenic nitrosamines may be formed.
Hazardous decomposition products:	May include carbon monoxide, carbon dioxide, oxides of nitrogen

SECTION 11: Toxicological Information**Acute Toxicity:**

Test	Species	Test Results
Diethylene glycol (111-46-6)		
Dermal Acute LD 50	Rabbit	11890 mg/kg
Oral Acute LD 50	Rat	12570mg/kg
Diisopropanolamine (110-97-4)		
Dermal Acute LD 50	Rabbit	8000 mg/kg
Oral Acute LD 50	Rat	4765 mg/kg

Ethanolamine (141-43-5)

Dermal Acute LD 50 Rat 1kg/kg

Oral Acute LD 50 Rat 10.2 g/kg

Hexylene Glycol (107-41-5)

Dermal Acute LD 50 Rat >2000mg/kg

Oral Acute LD 50 Rat 12570 mg.kg

Triethanolamine (102-71-6)

Dermal Acute LD 50 Rabbit >2000 mg/kg

Oral Acute LD 50 Guinea pig 5300 mg/kg
Rat 8 g/kg

- Skin:** May cause skin irritation and allergic skin reaction.
- 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	2	Causes skin irritation
STOT -single exposure	Not classified	Not applicable
STOT-repeated exposure	Not classified	Not applicable
Serious eye damage/eye irritation	2	Causes serious 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	Not classified	Not applicable

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Triethanolamine (CAS 102-71-6) 3. Not classifiable as to carcinogenicity to humans

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.	Algae	Fish	Crustacea
Acute 2-Aminoethanol	141-43-5	No data	LC 50 Rainbow trout, Donaldson trout 114-196 mg/l, 96 hours	No data
Acute Hexylene glycol	107-41-5	No data	LC 50 Bleak (<i>Alburnus alburnus</i>) 7000-9100 mg/l, 96 hours	EC 50 Water Flea (<i>Ceriodaphnia dubia</i>) 2400-3200 mg/l, 48 hours
Acute Diethylene glycol	111-46-6	No data	LC 50 Western mosquitofish (<i>Gambusia affinis</i>) >32000mg/l, 96 hours	No data
Acute Triethanolamine	102-71-6	169: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 216: 72 h <i>Desmodesmus subspicatus</i> mg/L	10600 - 13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	EC 50 Water Flea (<i>Ceriodaphnia dubia</i>) 562-658.3 mg/l, 48 hours

Bioaccumulation potential: Not available.

Mobility: Not available.

Other adverse effects: Not available.

SECTION 13: Disposal Considerations

Disposal instructions: Dispose of contents/container in accordance with local/regional/national/international 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 no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

HMIS Information:

Health	2
Flammability	0
Reactivity	1
Personal Protection	B

NFPA Information:



SECTION 16: Other Information

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