



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:

Acute toxicity, oral: Category 4, H302
Skin corrosion/irritation: Category 2, H315
Serious eye damage/eye irritation: Category 1, H318
Sensitization, skin: Category 1, H317

GHS Label Elements:



Signal Word: Danger

Hazard Statements:

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H317 May cause an allergic skin reaction

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P330 Rinse mouth.
P310 Immediately call a POISON CENTER/doctor
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment see this label.
P362 Take off contaminated clothing.
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#	%	
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10-20	*
Diethylene glycol	111-46-6	5-10	*
Diisopropanolamine	110-97-4	3-5	*
Hexahydro-1,3,5- Tris(2-Hydroxyethyl)-s-Triazine	4719-04-4	1-3	*
Triethanolamine	102-71-6	3-5	*
Ethanolamine	141-43-5	1-3	*
Hexylene glycol	107-41-5	1-3	*

*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: 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: Combustion may generate carbon monoxide, carbon dioxide, hydrogen chloride and oxides of sulfur and calcium

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
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	OSHA Table Z-1	PEL	3ppm 2000mg/m3
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	PEL STEL	6mg/m3 6ppm
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.
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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
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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.
Hazardous decomposition products: May include carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur.

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	Cat Mouse	3300 mg/kg 22500 mg/kg
Diisopropanolamine (110-97-4)		
Dermal Acute LD 50	Rabbit	8000 mg/kg
Oral Acute LD 50	Guinea pig Mouse	2800 mg/kg 96 mg/kg
Ethanolamine (141-43-5)		
Dermal Acute LD 50	Rabbit	1025 mg/kg
Oral Acute LD 50	Guinea pig Mouse	620 mg/kg 50 mg/kg
Hexylene Glycol (107-41-5)		
Dermal Acute LD 50	Mouse Rat	3.5 g/kg 4.79 g/kg
Oral Acute LD 50	Cat Mouse	3300 mg/kg 22500 mg/kg
Triethanolamine (102-71-6)		
Dermal Acute LD 50	Rabbit	>20000 mg/kg
Oral Acute LD 50	Guinea pig Rat	5300 mg/kg 8 g/kg

Skin: May cause skin irritation and allergic skin reaction.

Eyes: Causes serious eye irritation. Permanent eye damage including blindness may result.

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)	4	Harmful if swallowed
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	1	Causes serious eye damage
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: 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.	Algae	Fish	Crustacea
Product mixture	NA	No data	LC 50, 64373.1992 mg/l, 96 hours estimated	Daphnia, EC 50 12760.5801 mg/l, 48 hours estimated
		No data	LC 50, 53682 mg/l, 96 hours	Daphnia, EC 50 2781 mg/l, 48 hours

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	2
Flammability	0
Reactivity	0
Personal Protection	B

NFPA Information:**SECTION 16: Other Information**

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