

**MATERIAL SAFETY DATA SHEET**

MSDS-001

SECTION 1 - Chemical Product and Company Information:

Product Name: Cougar Coolant

Supplier/Manufacturer: Cut Technologies Canada Ltd.
343 Dawson Ave
Penticton, BC V2A 3N5
(250) 492-9198

Use of Preparation: Synthetic Grinding Fluid
Chemical Description: Water based surfactant mixture
Effective Date: 06/15/2004

SECTION 2 - Composition/Information on Ingredients:

<u>Name</u>	<u>CAS#</u>	<u>%WEIGHT</u>	<u>WarningLabel/R Phrases</u>
Triethanolamine	102-71-6	<30	R22, R36, R37, R38

SECTION 3 – Hazard/Identification:

Ingestion: Severe exposure may cause nausea and gastrointestinal discomfort.

Inhalation: Exposure to mist may cause mild nasal irritation.

Eye Contact May cause slight, transient irritation seen as excess redness.

Skin Contact: Not normally considered a hazard.

Other: Pre-existing skin condition may promote irritation.

SECTION 4 - First Aid Measures:

Eye Contact: Immediately flush with water for at least 15 minutes, seek medical attention if irritation persist.

Skin Contact: Wash with soap and water, dry thoroughly, apply hand cream. Remove contaminated clothing.

Inhalation: Remove to fresh air.

Ingestion: Give at least 2 glasses of milk or water, seek medical attention, and induce vomiting upon advice of physician. Do not attempt to give anything orally to an unconscious person.

Note to Physician: Treat symptomatically. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to possible over exposure to materials other than this product.

**SECTION 5 - Firefighting Measures:**

Flash Point: Non-Flammable
Upper Flammable Limit: N/A
Lower Flammable Limit: N/A
Extinguishing media: N/A
Special Firefighting Procedure: Cool containers exposed to head with water spray.

SECTION 6- Accidental Release:

Spill or Leak: Contain spill, absorb with inert material and place spilled material in appropriate waste containers.

Personal protection in case of large spill: Splash proof safety goggles. Protective gloves.

SECTION 7 - Handling and Storage:

Precaution: Avoid prolonged contact with skin and clothing. Keep container sealed when not in use. Do not mix nitrites or other nitrosating agents to this product, suspected cancer-causing nitro amines could be formed.

Temperature consideration: Avoid freezing while in storage. Keep away from extreme heat or open flame.

SECTION 8 - Exposure Control/Personal Protection:

Exposure Limit Values for Preparation: Not established.

Exposure Limit Values	Component	OSHA PEL	ACGIH	OTHER
For components	Triethanolamine		5MG/m3 TWA	
Exposure Controls:	Personal Protective Equipment			

Eye/Face: Splash-proof safety goggles strongly recommended.

Skin: Impervious gloves and protective clothing are recommended.

Respiratory: Ventilation must be adequate to maintain concentration below exposure levels, especially when mist or vapor is present.

Other: Eye bath, safety shower, protective hand cream or moisturizer.

SECTION 9 –Physical and Chemical Properties:**GENERAL CHARACTERISTICS**

Odor:	Mild Ammoniac Odor
Color:	Blue
Appearance:	Liquid
PH:	9.90
Boiling Point:	N/E
Freezing Point:	N/E
Specific Gravity:	1.03
Vapor Pressure:	N/E
Vapor Density:	N/E
% Volatile:	60
Evaporation Rate:	< water
Solubility in Water:	Soluble
Combustibility:	N/A
Auto-Ignition Temperature:	N/A
Flash Point:	Non-flammable
Flammable Limits:	N/A
Fire Hazard in Presence of Various substances:	None
Explosion Hazard in Presence of Various substances:	None

SECTION 10 –Stability and Reactivity:

Stability:	Stable
Incompatibility:	Strong oxidizers and reducers
Thermal Decomposition:	Oxides of carbon
Hazardous Polymerization:	Will not occur

SECTION 11 –Toxicological Information:

Routes of Exposure:	Skin and Eye contact, Inhalation of mist and Ingestion
Acute Toxicity For preparation:	No data

Acute Toxicity data available
For listed component

Components	Triethanolamine
Eye:	Draize 15.00-25.00/110 rabbit (slightly irritating)
Skin:	Draize > .50-3.00/8.0 rabbit (slightly irritating)
Dermal:	LD50 rabbit > 2.0g/kg (practically non-toxic)
Oral:	LD50 rat>2.0-5.0g/kg (slightly toxic)

Chronic Toxicity: This preparation does not contain substances in reportable quantities that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

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SECTION 12 –Ecological Information:

Ecotoxicity:	This preparation is considered to have low toxicity to aquatic and estuarine species. Data found for listed component Triethanolamine, LC50: Fathead minnow 1800-11800 mg/L, LC50: Bluegill 7930 mg/L, LC50: Water Flea 1390-2038 mg/L.
COD of preparation @ 4% Solution:	10263+/- mg/L, EPA Method 410.4
Mobility:	This product is not expected to selectively partition and absorb to soil or sediments.
Persistence & Biodegradability:	The components of this product are readily biodegradable and are not expected to persist in the environment.
Other adverse effects:	None Known

SECTION 13 –Disposal considerations:

Waste Information:	This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes etc. may render the resulting material hazardous.
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SECTION 14 –Transportation Information:

DOT ID Number (UN#)	Not Regulated
Hazard Class:	Not Regulated
DOT Proper Shipping Name:	Not Regulated
Packing Group:	Not Regulated
Special Provisions:	None

SECTION 15 –Regulatory Information:

SARA 302, Extremely Hazardous Substance:	None
SARA 304, CERCLA Hazardous Substance:	None
SARA 311, Hazards Characterization:	Triethanolamine-Acute/Chronic
SARA 313, Toxic Chemical Release Reporting (Form R):	None
VOC's:	None

TSCA Inventory Status: All components in this product are listed or are exempt from the Toxic Substance Control Act (TSCA)

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SECTION 16 –Other Information:**Disclaimer****NOTE ****

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. The following specific information is made for the purpose of complying with numerous federal, state or provincial and local laws and regulations. See MSDS for health and safety information.

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