

SECTION 1. PRODUCT AND COMPANY INFORMATION

MANUFACTURER: PACE Technologies
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INFORMATION PHONE: 520-882-6598

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night
International call collect CHEMTREC 202-483-7616

TRADE NAME: DIACUT Cutting Fluid

CHEMICAL FAMILY: Synthetic Coolant

HMS RATING: 1=HEALTH 0=FLAMMABILITY 0=REACTIVITY

EMERGENCY OVERVIEW:

This product is a water soluble liquid.

Direct eye contact may cause irritation. Short term skin contact may cause slight irritation. Inhalation of high vapor or mist levels in poorly ventilated areas may cause mild upper respiratory tract irritation.

Ingestion is not an anticipated route of exposure.

SECTION 2. COMPONENT DATA

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain non-hazardous or trade-secret components.

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>	<u>OSHA</u>		<u>ACGIH</u>	
			TWA (mg/m ³)	STEL (mg/m ³)	TWA (mg/m ³)	STEL (mg/m ³)
Triethanolamine	102-7-6	<10	5	-	5	-

Carcinogenic Components: This product contains no carcinogens.

SECTION 3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS AND SYMPTOMS FROM SHORT TERM/ACUTE EXPOSURE:

EYE EXPOSURE: This product is not expected to cause eye irritation under normal conditions of use. Symptoms of mild eye irritation and redness may result upon direct contact or when exposed to high mist levels in poorly ventilated areas.

SKIN EXPOSURE: Skin contact may result in slight, temporary irritation.

INGESTION: Ingestion may cause slight stomach irritation and discomfort.

INHALATION:	This product has low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to high mist levels in poorly ventilated areas may irritate the upper respiratory tract with symptoms of itching eyes and nasal passages.
POTENTIAL CHRONIC HEALTH EFFECTS:	No further data known.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	No further data known.
CARCINOGENICITY:	This product is not listed as a known or suspected carcinogen by IARC, OSHA, or the NTP.

SECTION 4. FIRST-AID PROCEDURES

EYE CONTACT:	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. If symptoms persist, contact a physician.
SKIN CONTACT:	Remove product from the skin by washing with a mild soap and flushing with a steady stream of water. Contaminated clothing should be removed to prevent prolonged exposure. If symptoms of exposure persist, contact a physician.
INHALATION:	If signs or symptoms of overexposure occur, remove the employee to fresh air. If symptoms persist, seek medical attention.
INGESTION:	If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, dilute stomach contents with two glasses of water or milk. (NOTE: Do NOT give anything by mouth to an unconscious person.). Do not induce vomiting without medical supervision. If vomiting occurs spontaneously keep airway clear. If symptoms of ingestion persist, seek medical attention.
NOTES TO PHYSICIAN:	No further data known.

SECTION 5. FIRE-FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES:	Flashpoint: N/A Flammability Limits: N/A
EXTINGUISHING MEDIA:	This product is not combustible but water fog, dry chemical, foam, and CO2 fire extinguishers may be used in areas where it is stored.
UNUSUAL FIRE & EXPLOSION HAZARDS:	No further data known.
FIRE_FIGHTING PROCEDURES	The noncombustible nature of the product creates no need

AND EQUIPMENT: for special fire fighting procedures and equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP MEASURES:

Important: As with any spill or leak, before responding ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

If possible, safely contain the spill with dikes or other spill response equipment appropriate for releases of water-based materials. Prevent spreading of product and/or release into the environment. Large volumes of material should be collected in an appropriate waste container for proper disposal. Small volumes or residues may be soaked up with absorbent material. Disposal of any spill response materials should meet appropriate waste regulations.

SECTION 7. HANDLING AND STORAGE

HANDLING: As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

STORAGE: Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

SPECIAL COMMENTS: Do not mix with nitrites. This product contains an amine that may react under certain conditions, with nitrites to form nitroamines.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT: Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

EYE PROTECTION: Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

SKIN PROTECTION: Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

Where splashing or soaking is likely, wear oil or chemical resistant

clothing to prevent exposure.

SKIN PROTECTION:

Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

Where splashing or soaking is likely, wear oil or chemical resistant clothing to prevent exposure.

**RESPIRATORY
PROTECTION:**

A respirator may be worn to reduce exposure to vapors, dust, or mist. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

ENGINEERING CONTROLS:

Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

The user may wish to refer to 29 CFR 1910-1000 (d) (2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices". (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid	ODOR: Slight perfume
COLOUR: Blue	SOLUBILITY IN WATER: Yes
SPECIFIC GRAVITY: 1.060	

SECTION 10. STABILITY AND REACTIVITY**STABILITY:**

Stable

CONDITIONS TO AVOID:

Avoid contact with incompatible materials and exposure to extreme temperatures.

**DECOMPOSITION PRODUCTS MAY
INCLUDE:**

The product, as sold, is not expected to thermally decompose. Product residue however, may burn. Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solid liquid, particulates and gasses may evolve when the residues burn.

By products of residue combustion may include:

-oxides of carbon
-ammonia and oxides of nitrogen
-incompletely burned hydrocarbons as fumes and smoke.

INCOMPATIBILITY: This product is incompatible with strong oxidizing agents.

POLYMERIZATION: This product is not expected to polymerize.

SECTION 11. TOXICOLOGY INFORMATION

EYE EFFECTS: No further toxicological data known.

SKIN EFFECTS: Contact with a component of this product may cause an allergic skin reaction in a small percentage of the population.

No further toxicological data known

INHALATION: No further toxicological data known

ORAL EFFECTS: No further toxicological data known

OTHER: No further data known

SECTION 12, ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

ENVIRONMENTAL FATE: The degree of biodegradability and persistence of this product has not been determined.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

SECTION 14. TRANSPORT INFORMATION

DOT HAZARDOUS MATERIAL INFORMATION: Not otherwise DOT regulated.

SECTION 15. REGULATORY INFORMATION

FEDERAL REGULATIONS:

SARA 313: This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 Part 372.

CERCLA Reportable Quantity: Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Releases of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802:

None listed

TOXIC SUBSTANCES CONTROL ACT: The components of this product are listed on the TSCA Inventory.

OZONE DEPLETING SUBSTANCES: This product contains no ozone depleting substances as defined by the Clean Air Act.

HAZARDOUS AIR POLLUTANTS: Any components listed below are defined by the Federal EPA as hazardous air pollutants.

None listed

STATE REGULATIONS: No further date known.

SECTION 16. OTHER INFORMATION

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

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