



**MATERIAL SAFETY DATA SHEET**  
**PRO-TEC STANDARD GRADE SHORING FLUID**

**1. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent</u>
111-42-2	Diethanolamine	1-5%
4719-04-4	1,3,5 – Triazine – 1,3,5 (2H, 4H, 6H) – Triethanol	5-10%

**2. HAZARDS IDENTIFICATION**

THRESHOLD LIMIT VALUE:

0.46 PPM IS THE TLV (SKIN) FOR DIETHANOLAMINE (ACGIH).

PRIMARY ROUTES OF ENTRY:

INHALATION, SKIN CONTACT, EYE

EYE CONTACT:

WILL CAUSE EYE IRRITATION.

SKIN CONTACT:

REPEATED OR PROLONGED CONTACT WITH BASE PRODUCT MAY CAUSE SKIN IRRITATION.

INHALATION:

INHALATION OF VAPOR OR MIST MAY PRODUCE RESPIRATORY IRRITATION.

EFFECTS OF OVEREXPOSURE:

INGESTION: INGESTION MAY CAUSE NAUSEA, DIARRHEA AND STOMACH DISCOMFORT.



### **3. FIRST AID MEASURES**

EYES: Flush promptly with cool running water for at least 15 minutes. Call a physician.

SKIN: Wash thoroughly with soap and water. Call a physician if necessary.

INGESTION: Call a physician. Never give anything by mouth to an unconscious person.

INHALATION: IF inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

### **4. FIRE FIGHTING MEASURES**

FLASH POINT (METHOD USED): NA BOILS @ 212°F.

FLAMMABLE LIMITS: ND                      LOWER: ND                      UPPER: ND

EXTINGUISHING MEDIA:  
CO<sub>2</sub>, FOAM, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES:  
WEAR HIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
NONE.

### **5. ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
DILUTE WITH LARGE VOLUMES OF WATER; NEUTRALIZE WITH MILD ACID. WASH AREA WITH MILD DETERGENT AND WATER.

ENVIRONMENTAL IMPACT:  
NOT DETERMINED.

### **6. HANDLING AND STORAGE**

STORAGE TEMPERATURE (MIN./MAX.)  
40°F / 100°F

SHELF LIFE:  
1 YEAR

SPECIAL SENSITIVITY:  
NOT DETERMINED

HANDLING AND STORAGE PRECAUTIONS:  
Do not get in eyes, on skin or on clothing. Do not take internally. Wash thoroughly after handling.

OTHER PRECAUTIONS:  
NONE.



## **7. EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION:  
WEAR SAFETY GOGGLES.

PROTECTIVE GLOVES:  
RECOMMENDED

RESPIRATORY PROTECTION:  
FOR FIRE CONDITIONS OR EXPOSURE ABOUT TLV: WEAR NIOSH/NSHA APPROVED  
RESPIRATORS.

VENTILATION REQUIREMENTS:  
LOCAL EXHAUST IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:  
EYE WASH FACILITY AND SAFETY SHOWER RECOMMENDED.

## **8. PHYSICAL AND CHEMICAL PROPERTIES**

BOILING/MELTING POINT:  
> 212°F

SPECIFIC GRAVITY (H<sub>2</sub>O = 1):  
1.008 @ 60°F

VAPOR DENSITY (AIR = 1):  
ND

VAPOR PRESSURE:  
ND

PERCENT VOLATILE BY VOLUME (%):  
ND

PERCENT SOLID BY WEIGHT:  
ND

EVAPORATION:  
ND

SOLUBILITY IN WATER:  
COMPLETE

PH:  
9.1 - 9.5

APPEARANCE AND ODOR:  
CLEAR TO SLIGHTLY HAZY, MEDIUM TO DARK AMBER FLUID WITH MILD ODOR

VOLATILE ORGANIC COMPOUND (VOC): NOT DETERMINED



## 9. STABILITY AND REACTIVITY

STABILITY:  
STABLE.

CONDITIONS CONTRIBUTING TO INSTABILITY:  
NONE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR

INCOMPATIBILITY:  
STRONG ACIDS, STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
(THERMAL) NONE.

## 10. TOXICOLOGICAL INFORMATION

THIS PRODUCT DOES NOT CONTAIN ANY MATERIAL SHOWN TO BE A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) OR OSHA.

## 11. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

## 12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

DILUTE WITH LARGE VOLUMES OF WATER; NEUTRALIZE WITH MILD ACID. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL EPA REGULATIONS.



### **13. TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS DIETHANOLMINE), 9, UN 3082, PG III.

THIS IS FOR BULK SHIPMENTS ONLY! (UNLESS INDICATED ON BILL OF LADING OR ON DRUM WITH THE CLASS 9 LABEL.)

D.O.T. HAZARD CLASS:

N.A.

UN/NA ID NUMBER

UN 3082

EMERGENCY RESPONSE GUIDE NUMBER:

ERG # 171

### **14. REGULATORY INFORMATION**

TOXIC SUBSTANCES CONTROL ACT (TSCA):

THIS PRODUCT AND/OR ALL THE INGREDIENTS CONTAINED IN THIS PRODUCT HAVE BEEN REGISTERED UNDER THE TOXIC SUBSTANCES CONTROL ACT.

R.C.R.A.:

THIS PRODUCT DOES NOT MEET THE DEFINITIONS OR CONTAIN ANY SUBSTANCE APPEARING IN THE LISTINGS CONTAINED IN 40 CFR 261, "IDENTIFICATION AND LISTING OF HAZARDOUS WASTE.

THIS PRODUCT CONTAINS DIETHANOLAMINE WHICH IS SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS UNDER SECTION 313 OF SARA, TITLE III. CONTACT THE EPA FOR INFORMATION REGARDING THE REPORTING REQUIREMENTS.

THIS PRODUCT HAS BEEN REVIEWED IN ACCORDANCE WITH SECTIONS 311 (MSDS INVENTORY) AND SECTION 312 (TIER I/II INVENTORY) OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (CFR 40 370.2) FOR "HAZARD CATEGORY" STATUS UNDER APPLICABLE DEFINITIONS, THIS PRODUCT MEETS THE FOLLOWING CATEGORIES: IMMEDIATE (ACUTE) HEALTH HAZARD.

THIS PRODUCT DOES NOT CONTAIN OR WAS NOT MANUFACTURED WITH ANY EPA CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.



## 15. OTHER INFORMATION

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BASED ON THE NEAT OR CONCENTRATED PRODUCT AS SHIPPED.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATING (HMIS)

HEALTH*	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

\* PERSONAL PROTECTION RECOMMENDATIONS SHOULD BE REVIEWED BY PURCHASERS. WORKPLACE CONDITIONS ARE IMPORTANT FACTORS IN SPECIFYING ADEQUATE PROTECTION.

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NA= NOT APPLICABLE, ND= NOT DETERMINED, < = LESS THAN, > = GREATER THAN