



MATERIAL SAFETY DATA SHEET

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P-D88L

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CHEMICAL CODE: P-D88L
PRODUCT NAME: DISPERSANT LIQUID
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: OCTOBER 31, 2000



NFPA RATING:

HEALTH HAZARD: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER:

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

NOMINAL COMPOSITION:

PROPRIETARY BLEND

CAS NUMBER

MIXTURE

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	SURFACTANT	FORM:	LIQUID
COLOR:	DARK BROWN	ODOR:	SLIGHT
VAP DENSITY (AIR=1):	NOT DETERMINED	% SOL. IN WATER:	100
PH:	NOT DETERMINED	S.P GRAVITY:	1.23
POUR PT.:	NOT DETERMINED	BOILING POINT:	NOT DETERMINED
VAP. PRESSURE:	NOT DETERMINED	WT% VOLATILE:	60

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: WILL BURN AT HIGH TEMPERATURES

FLASH POINT: > 200 DEG F > 93 DEG C METHOD USED: TAG CLOSED CUP

FLAMMABLE LIMITS (STP IN AIR) LFL: NOT DETERMINED UFL: NOT DETERMINED

EXTINGUISHING MEDIA: WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: EVACUATE AREA OF ALL UNNECESSARY PERSONNEL. SHUT OFF SOURCE, IF POSSIBLE. USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. WATER FOG OR SPRAY MAY BE USED TO COOL EXPOSED CONTAINERS AND EQUIPMENT.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: STABLE

INCOMPATIBILITY: OXIDIZING MATERIAL.

HAZARDOUS DECOMPOSITION: WHEN HEATED STRONGLY OR BURNED, OXIDES OF CARBON, SULFUR OXIDES, SODIUM OXIDES, AND HARMFUL ORGANIC CHEMICAL FUMES ARE RELEASED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: FLUSH EYES WITH WATER FOR 5 MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

SKIN CONTACT: WASH SKIN WITH SOAP AND WATER. SEE A DOCTOR IF IRRITATION OCCURS. WASH CLOTHES THOROUGHLY BEFORE REUSING.

SWALLOWING: IF SEVERAL GRAMS ARE SWALLOWED, INDUCE VOMITING WITH IPECAC (PREFERRED), OR BY GIVING WATER AND STICKING FINGER DOWN THROAT. AFTER VOMITING GIVE MILK (PREFERRED) OR WATER AND CONSULT PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. SEE A DOCTOR IF EFFECTS OCCUR.

NOTES: NONE

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE: Q1

VENTILATION: GENERAL VENTILATION IS REQUIRED.

RESPIRATORY PROTECTION: FOR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LEVEL, USE NIOSH APPROVED AIR PURIFYING RESPIRATOR WITH DUST AND MIST PROTECTION (3M NO. 8710). IN CASE OF SPILL OR LEAK RESULTING IN UNKNOWN CONCENTRATION, USE NIOSH APPROVED SUPPLIED AIR RESPIRATOR.

PROTECTIVE CLOTHING: CLEAN, BODY-COVERING CLOTHING AND RUBBER GLOVES.

EYE PROTECTION: CHEMICAL GOGGLES REQUIRED AND AN EYE WASH IN WORK AREA.

EXPOSURE GUIDELINE(S): NOT ESTABLISHED.



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: NOT ESTABLISHED.

SPECIAL HANDLING: CONTAIN WITH DIKES. PUT IN STEEL OR PLASTIC DRUM. SOAK UP RESIDUAL ON INERT ABSORBENT (SAND). SCOOP INTO CONTAINERS. AVOID GENERATING DUST. USE WATER CAREFULLY; SLICK WHEN WET. IF VACUUM SWEEPER IS USED, IT MUST BE RATED TO HANDLE EXPLOSIVE DUSTS.

DISPOSAL METHOD FOR:

PRODUCT: MAY BE INCINERATED (PREFERRED) OR INJECTED IN DISPOSAL WELL. SMALL AMOUNTS MAY BE ACCEPTABLE IN SANITARY SEWER; CHECK LOCAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: NONE.

CONTAINER: SELL TO APPROVED DRUM RECONDITIONER OR RENDER CONTAINER UNUSABLE BY PUNCTURING OR CRUSHING. SEND TO SANITARY LANDFILL UNLESS PROHIBITED BY LOCAL REGULATIONS.

DEGRADABILITY: NOT BIODEGRADABLE.

FISH TOXICITY: TOXIC TO FISH. DO NOT ALLOW TO ENTER WATERWAY.

ANIMAL TOXICITY: LOW TOXICITY TO MAMMALS.

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

PRINCIPAL HAZARD (E=EYE, S=SKIN, I=INHAL.): E

EYE CONTACT: IRRITANT. MAY CAUSE PAIN, REDNESS, AND DISCOMFORT.

SKIN CONTACT: REPEATED AND PROLONGED CONTACT MAY CAUSE IRRITATION. NO EFFECT EXPECTED. PROLONGED OR REPEATED CONTACT MAY CAUSE MILD IRRITATION.

SWALLOWING: NO EFFECT EXPECTED. SWALLOWING LARGE AMOUNTS MAY CAUSE ILLNESS.

INHALATION: MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT, AND UPPER RESPIRATORY TRACT.

INGESTION: LARGE AMOUNTS MAY CAUSE GASTROINTESTINAL UPSET, NAUSEA AND VOMITING. ORAL LETHAL DOSE IS 3800 MG/KG.

OTHER: NONE.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: NONE.

PHYSICAL HAZARD: DUST, WATER SLICK.

HANDLING AND STORAGE PRECAUTIONS: AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING VAPOR, MIST, FUME, OR DUST. WEAR PROTECTIVE EQUIPMENT AND/OR GARMENTS. WASH THOROUGHLY AFTER HANDLING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. USE WITH ADEQUATE VENTILATION.

PACKAGING INFORMATION: UNCOATED PHOSPHATIZED STEEL DRUM (DOT 17E) OR PLASTIC CAN.

ADDITIONAL INFORMATION: NONE

THE INFORMATION HEREIN IS BELIEVED TO BE ACCURATE AND IS PRESENTED IN GOOD FAITH; HOWEVER, NO WARRANTIES OR REPRESENTATIONS ARE MADE BY PETROCHEM, INC. REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION.



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SHIPPING INFORMATION

ID NUMBER (UN # OR NA #): FLASH PT. > 200 DEG F, > 93 DEG C
BOILING PT. NOT DETERMINED

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING
ICC ITEM NUMBER: 138640 ICC CLASS: 50 LTL 35 TL

DEPARTMENT OF TRANSPORTATION - DOT

DESCRIPTION: NOT REGULATED
HAZARD CLASS: NOT REGULATED
SHIPPING NAME: NOT REGULATED
DOT LABEL:
COMMENT:
DS TANK EX. #: N/A
CERCLA RQ: NOT ESTABLISHED.

US FOREIGN TRADE (HTS) SCHEDULE B# (EXPORT): 38244000 (ADDITIVE FOR CEMENT)

CANADIAN SHIPMENTS -

SHIPPING NAME:
SPECIAL PROVISION:
CLASSIFICATION:

ICAO CLASS: PKG GROUP:

WATER SHIPMENT (IMO)

SHIPPING NAME: NOT REGULATED
LABEL(S):
CLASS: 50 PKG GROUP: IMDG PAGE:
MARPOL:

AIR SHIPMENTS (IATA) -

SHIPPING NAME: NOT REGULATED
LABEL(S):

CLASS: SUB RISK: PKG GROUP:
PASSENGER AIRCRAFT PKG. INSTR. MAX. NET QTY. /PKG.
CARGO AIRCRAFT ONLY PKG. INSTR. MAX. NET QTY. /PKG.

EUROPEAN ECONOMIC COMMUNITY (EEC) -

RISK PHRASES: SAFETY PHRASES: A1 26 (IR)

CLASSIFICATION (LABEL):

LABEL DESCRIPTION:

ADR CLASS: NOT REGULATED RID CLASS: TREM CARD:

HAZARD CLASSIFICATION:

COMMENT: A1 = EXERCISE REASO