



MATERIAL SAFETY DATA SHEET

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P-DFL

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CHEMICAL CODE: P-DFL
PRODUCT NAME: DE-FOAMER LIQUID
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: SEPTEMBER 1, 2005



NFPA RATING:

HEALTH HAZARD: 1 FLAMMABILITY: 0 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:	DE-FOAMER	FORM:	LIQUID
COLOR:	OFF-WHITE	ODOR:	SLIGHT
VAP DENSITY (AIR=1):	8.2-8.6 LB/GAL	% SOL. IN WATER:	100
PH:	NOT DETERMINED	S.P GRAVITY:	0.99-1.03 @ 77 DEG F/25 DEG C
POUR PT.:	-30 DEG F	BOILING POINT:	NOT DETERMINED
VAP. PRESSURE:	SAME AS WATER	WT% VOLATILE:	NOT DETERMINED

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: THIS PRODUCT WOULD NOT BE EXPECTED TO BURN UNLESS ALL THE WATER IS BOILED AWAY. THE REMAINING ORGANICS MAY BE IGNITABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

FLASH POINT: NONE METHOD USED: N/A

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

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

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: NOT FLAMMABLE OR COMBUSTIBLE. MAY EVOLVE OXIDES OF CARBON (COX) UNDER FIRE CONDITIONS. IN CASE OF FIRE, WEAR A FULL FACE POSITIVE-PRESSURE SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: STABLE UNDER NORMAL CONDITIONS.

INCOMPATIBILITY: OXIDIZING MATERIAL, AVOID EXTREME TEMPERATURES.

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: DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. IF CONSCIOUS, WASH OUT MOUTH & GIVE WATER TO DRINK. IF SYMPTOMS DEVELOP, SEEK MEDICAL ADVICE.

INHALATION: REMOVE TO FRESH AIR, TREAT SYMPTOMATICALLY. IF SYMPTOMS DEVELOP, SEEK MEDICAL ADVICE.

NOTES:

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE:

VENTILATION: GENERAL VENTILATION IS RECOMMENDED. LOCAL EXHAUST VENTILATION MAY BE NECESSARY WHEN DUSTS OR MISTS ARE GENERATED.

RESPIRATORY PROTECTION: IF SIGNIFICANT MISTS, VAPORS OR AEROSOLS ARE GENERATED AN APPROVED RESPIRATOR IS RECOMMENDED. A SUITABLE FILTER MATERIAL DEPENDS ON THE AMOUNT AND TYPE OF CHEMICALS BEING HANDLED. IF RESPIRATORY PROTECTION IS REQUIRED, INSTITUTE A COMPLETE RESPIRATORY PROTECTION PROGRAM INCLUDING SELECTION, FIT TESTING, TRAINING, MAINTENANCE AND INSPECTION. IN EVENT OF EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS A POSITIVE PRESSURE, FULL-FACEPIECE SCBA SHOULD BE USED.

HAND PROTECTION: WHEN HANDLING THIS PRODUCT, THE USE OF CHEMICAL GLOVES IS RECOMMENDED. THE CHOICE OF WORK GLOVE DEPENDS ON WORK CONDITIONS AND WHAT CHEMICALS ARE HANDLED. PLEASE CONTACT THE PPE MANUFACTURER FOR ADVICE ON WHAT TYPE OF GLOVE MATERIAL MAY BE SUITABLE. GLOVES SHOULD BE REPLACED IMMEDIATELY IF SIGNS OF DEGRADATION ARE OBSERVED.

SKIN PROTECTION: WEAR STANDARD PROTECTIVE CLOTHING.

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



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HYGIENE RECOMMENDATIONS: KEEP AN EYE WASH FOUNTAIN AVAILABLE. KEEP A SAFETY SHOWER AVAILABLE. IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

HUMAN EXPOSURE CHARACTERIZATION: BASED ON OUR RECOMMENDED PRODUCT APPLICATION AND PERSONAL PROTECTIVE EQUIPMENT, THE POTENTIAL HUMAN EXPOSURE IS: MODERATE

EXPOSURE GUIDELINE(S): AVOID EYE AND SKIN CONTACT. DO NOT TAKE INTERNALLY. ENSURE ALL CONTAINERS ARE LABELED. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. THIS PRODUCT CONTAINS AMORPHOUS, COLLOIDAL OR FUMED SILICA. SHOULD THE PRODUCT BECOME DRIED OR MISTED SUCH THAT INHALATION OF THE MATERIAL IS POSSIBLE, STANDARD HYGIENE PRACTICES SHOULD BE UTILIZED TO ENSURE THAT EXPOSURE TO RESPIRABLE PARTICLES IS WITHIN THE REGULATED LIMITS.

SUBSTANCE(S) CATEGORY: PPM MG/M3 NON-STANDARD
UNIT
AMORPHOUS SILICA Z3/TWA 20 MPPCF
Z3/TWA 0.8

SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: NOT ESTABLISHED.

METHODS FOR CLEANING UP: SMALL SPILLS: SOAK UP SPILL WITH ABSORBENT MATERIAL. PLACE RESIDUES IN A SUITABLE, COVERED, PROPERLY LABELED CONTAINER. WASH AFFECTED AREA. LARGE SPILLS: CONTAIN LIQUID USING ABSORBENT MATERIAL, BY DIGGING TRENCHES OR BY DIKING. RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR TANK TRUCK FOR PROPER DISPOSAL. CONTACT AN APPROVED WASTE HAULER FOR DISPOSAL OF CONTAMINATED RECOVERED MATERIAL.

DISPOSAL METHOD FOR:

PRODUCT: IF THIS PRODUCT BECOMES A WASTE, IT IS NOT A HAZARDOUS WASTE AS DEFINED BY THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261, SINCE IT DOES NOT HAVE THE CHARACTERISTICS OF SUBPART C, NOR IS IT LISTED UNDER SUBPART D. AS A NON-HAZARDOUS WASTE, IT IS NOT SUBJECT TO FEDERAL REGULATION. CONSULT STATE OR LOCAL REGULATION FOR ANY ADDITIONAL HANDLING, TREATMENT OR DISPOSAL REQUIREMENTS. FOR DISPOSAL, CONTACT A PROPERLY LICENSED WASTE TREATMENT, STORAGE, DISPOSAL OR RECYCLING FACILITY.

EPA HAZARDOUS WASTE NUMBER: N/A

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

DEGRADABILITY: NOT BIODEGRADABLE.

ACUTE FISH RESULTS:

SPECIES EXPOSURE LC50 TEST DESCRIPTOR
RAINBOW TROUT 96 HRS > 1,000 MG/L PRODUCT
FATHEAD MINNOW 96 HRS > 1,000 MG/L PRODUCT

ACUTE INVERTEBRATE RESULTS:

SPECIES EXPOSURE LC50 EC50 TEST DESCRIPTOR
DAPHNIA MAGNA 48 HRS 1,000 MG/L PRODUCT



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SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

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

EYE CONTACT: IRRITANT. MAY CAUSE PAIN, REDNESS, DISCOMFORT WITH PROLONGED CONTACT.

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

SWALLOWING: NOT A LIKELY ROUTE OF EXPOSURE. MAY CAUSE GASTROINTESTINAL IRRITATION.

INHALATION: MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT, AND UPPER RESPIRATORY TRACT. NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF DRIED PRODUCT DUST MAY CAUSE IRRITATION.

OTHER: PROLONGED INHALATION OF DUST CONTAINING AMORPHOUS SILICA CAN INCREASE LUNG INJURY IN INDIVIDUALS WITH EMPHYSEMA, ASTHMA OR OTHER LUNG DISORDERS.

SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: BASED ON OUR HAZARD EVALUATION, NONE OF THE SUBSTANCES IN THIS PRODUCT ARE HAZARDOUS.

PHYSICAL HAZARD: MAY CAUSE IRRITATION WITH PROLONGED CONTACT. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT TAKE INTERNALLY. USE WITH ADEQUATE VENTILATION. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. WEAR SUITABLE PROTECTIVE CLOTHING. PROTECT PRODUCT FROM FREEZING. NOT FLAMMABLE OR COMBUSTIBLE. MAY EVOLVE OXIDES OF CARBON (COX) UNDER FIRE CONDITIONS.

HANDLING AND STORAGE PRECAUTIONS: AVOID EYE AND SKIN CONTACT. DO NOT TAKE INTERNALLY. ENSURE ALL CONTAINERS ARE LABELED. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. RESTRICT ACCESS TO AREA AS APPROPRIATE UNTIL CLEAN-UP OPERATIONS ARE COMPLETE. STOP OR REDUCE ANY LEAKS IF IT IS SAFE TO DO SO. DO NOT TOUCH SPILLED MATERIAL. VENTILATE SPILL AREA IF POSSIBLE. USE PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED.

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. NONE
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 SCHEDULE B# (EXPORT):

CANADIAN SHIPMENTS -

SHIPPING NAME:
SPECIAL PROVISION:
CLASSIFICATION:

ICAO CLASS: PKG GROUP:

WATER SHIPMENT (IMO) -

SHIPPING NAME: NOT REGULATED
LABEL(S):
CLASS: 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: