



MATERIAL SAFETY DATA SHEET

PETROCHEM, INC.
4111-D, N.W. 132ND STREET
OPA-LOCKA, FLORIDA 33054 U.S.A

EMERGENCY CONTACT: CHEMTREC
1-800-424-9300 (INTERNATIONAL 1-703-527-3887 – COLLECT CALLS ACCEPTED)

P-FA78

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CHEMICAL CODE: P-FA78
PRODUCT NAME: FOAMING AGENT
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: DECEMBER 27, 2000



NFPA RATING:

HEALTH HAZARD: 3 FLAMMABILITY: 3 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:	CLEAR AMBER	ODOR:	ALCOHOL
VAP DENSITY (AIR= 1) :	>1	% SOL. IN WATER:	SOLUBLE (68 ⁰ F)
PH:	7 (68 ⁰ F)	S.P GRAVITY:	0.89 (68 ⁰ F)
POUR PT.:	-20 ⁰ F	BOILING POINT:	187 ⁰ F
VAP. PRESSURE:	6.0 KPA (68 ⁰ F)	WT% VOLATILE:	50

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: WILL BURN AT HIGH TEMPERATURES

FLASH POINT: 69⁰F METHOD USED: PENSKY-MARTENS CC

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. VAPORS MAY TRAVEL ALONG THE GROUND AND IGNITE WHEN AN IGNITION SOURCE IS CONTACTED. AVOID BREATHING VAPORS. USE SCBA IN CLOSED AREAS.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: STABLE

INCOMPATIBILITY: OXIDIZING MATERIAL.

HAZARDOUS DECOMPOSITION: WHEN HEATED STRONGLY OR BURNED, OXIDES OF CARBON AND NITROGEN, AMMONIA, CHLORINE OXIDES, HYDROGEN CHLORIDE AND ORGANIC FUMES ARE RELEASED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

DUST EXPLOSION HAZARD (SOLIDS): NOT APPLICABLE.

SPECIAL HAZARDS: NONE

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 30 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION AT ONCE.

SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHES AND SHOES. WASH WITH SOAP AND WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

SWALLOWING: DO NOT INDUCE VOMITING. GIVE ACTIVATED CHARCOAL IN WATER, OR GIVE 2 GLASSES MILK OR WATER. SEEK MEDICAL ATTENTION AT ONCE.

INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS OR YOU FEEL UNWELL.

NOTES: NONE

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE:

VENTILATION: PROVIDE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS.

RESPIRATORY PROTECTION: USE NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR PROTECTION (COLOR CODED BLACK OR YELLOW). USE SCBA (SELF CONTAINED BREATHING APPARATUS) IN CONFINED AREAS.

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

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

EXPOSURE GUIDELINE(S): COMPONENTS HAVING NO ESTABLISHED LIMITS ARE NOT LISTED.
(NE: NOT ESTABLISHED, ND: NOT DETERMINED)

THESE NUMBERS MAY BE REFERRED TO AS OEL, MAC, MAK, MEL, OES, REL, PEL, OR TLV.
TWA IS THE 8 HOUR TIME WEIGHTED AVERAGE. STEL IS THE SHORT TERM EXPOSURE LIMIT.
"C" INDICATES THE VALUE IS A MAXIMUM CONCENTRATION (CEILING).



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: NOT ESTABLISHED.

SPECIAL HANDLING: CONTAIN WITH DIKES. USE EXPLOSION PROOF EQUIPMENT TO RECOVER. REMOVE ALL SOURCES OF IGNITION. SOAK UP RESIDUAL ON INERT ABSORBANT (SAND). PUT IN STEEL OR PLASTIC DRUM APPROVED FOR FLAMMABLES.

DISPOSAL METHOD FOR:

PRODUCT: SHIP VIA PERMITTED WASTE HAULER TO PERMITTED HAZARDOUS WASTE DISPOSAL FACILITY FOR INCINERATION (PREFERRED) OR DISPOSAL WELL INJECTION OF ALL LIQUIDS AND LANDFILLING OF SOLIDS.

EPA HAZARDOUS WASTE NUMBER: NONE.

CONTAINER: SELL DRUM TO AN APPROVED DRUM RECONDITIONER OR TRIPLE RINSE, CRUSH, AND SHIP TO SANITARY LANDFILL UNLESS PROHIBITED BY LOCAL REGULATIONS.

INFORMATION ON PRODUCT AS A WHOLE:

MAIN ENVIRONMENTAL HAZARDS: TOXIC TO AQUATIC ORGANISMS.

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

INFORMATION ON COMPONENTS:

INVERTEBRATE TOX: LC50= (96HR) 1150 MG/

LC50= (48HR) 1400 MG/L SPECIES: BROWN SHRIMP (CRANGON CRANGON)

FISH TOX - FRESH WATER: LC50= (7D) 7060 MG/L SPECIES: POECILIA RETICULATA

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

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

EYE CONTACT: CORROSIVE. RAPIDLY CAUSES PAIN, BURNS, AND CORNEAL INJURY. MAY CAUSE PERMANENT DAMAGE AND BLINDNESS

SKIN CONTACT: CORROSIVE; RAPIDLY CAUSES PAIN, BURNS, REDNESS, SWELLING AND DAMAGE TO TISSUE.

INGESTION: CORROSIVE; CAUSES PAIN AND SEVERE BURNS TO MOUTH, THROAT AND STOMACH. HARMFUL IF SWALLOWED; LARGE AMOUNTS MAY CAUSE ILLNESS.

INHALATION: HARMFUL IF INHALED; MAY CAUSE ILLNESS.

CARCINOGENICITY: NOT LISTED BY IARC, USA NTP, OR USA OSHA.

MUTAGENICITY: NOT KNOWN TO CAUSE BIRTH DEFECTS.

TARGET ORGANS WHICH MAY BE AFFECTED: NONE KNOWN.

SENSITIZATION: NOT KNOWN TO CAUSE ALLERGIC REACTION.

OTHER: NONE.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. STORE OUT OF DIRECT SUNLIGHT IN WELL-VENTILATED AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. DO NOT CUT OR WELD ON CONTAINER.

PHYSICAL HAZARD: FLAMMABLE LIQUID

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: HIGH DENSITY POLYETHYLENE (HDPE) DRUM OR 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. 69⁰F
BOILING PT. 187⁰F

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

DEPARTMENT OF TRANSPORTATION - DOT

DESCRIPTION: HAZARDOUS MATERIAL
HAZARD CLASS: 3
SHIPPING NAME: FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS ISOPROPANOL, QUATERNARY AMINE), 3, UN 2924, PGII
DOT LABEL: FLAMMABLE LIQUID 3, CORROSIVE
COMMENT:
CERCLA RQ: NOT ESTABLISHED.

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

CANADIAN SHIPMENTS -

SHIPPING NAME: FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS ISOPROPANOL, QUATERNARY AMINE)
LABEL(S): FLAMMABLE LIQUID 3, CORROSIVE
CLASSIFICATION: 3, 8
PACKAGE GROUP: II
PIN: UN 2924

REGULATORY INFORMATION

NOTIFICATION/RESTRICTIONS STATUS:

USA:

ALL COMPONENTS OF THIS MATERIAL ARE ON THE USA TSCA INVENTORY, OR THE COMPONENTS ARE EXEMPT FROM INVENTORY REPORTING.

CANADA:

ALL COMPONENTS OF THIS MATERIAL ARE ON THE CANADA DSL, OR THE COMPONENTS ARE EXEMPT FROM INVENTORY REPORTING.

THIS PRODUCT CONTAINS NO CHEMICALS SUBJECT TO THE USEPA REPORTING REQUIREMENTS OF SARA 313.
THE USEPA CERCLA REPORTABLE QUANTITY (RQ) FOR THIS PRODUCT AS A WHOLE IS: NOT ESTABLISHED.

CANADIAN WHMIS CLASSIFICATION: B2, D2B, E