



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-MTR4

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CHEMICAL CODE: P-MTR4
PRODUCT NAME: HIGH TEMPERATURE RETARDER
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: NOVEMBER 2, 1988



NFPA RATING:

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

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

NOMINAL COMPOSITION:

CAS NUMBER

PROPRIETARY BLEND OF SYNTHETIC & LIGNOSULFONATE RETARDERS.

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	LIGNOSULFONATE	FORM:	POWDER
COLOR:	BROWN POWDER	ODOR:	SLIGHT ODOR
VAP DENSITY (AIR=1):	N/A	% SOL. IN WATER:	100
PH:	8.5 (3%)	S. GRAVITY:	1.34
BULK DENSITY	1.30	BOILING POINT:	N/A
VAP. PRESSURE:	N/A	WT% VOLATILE:	5.0 (WATER)

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: DUST MAY BE EXPLOSIVE WHEN SUSPENDED IN AIR.

FLASH POINT: NOT APPLICABLE

METHOD USED: NOT DETERMINED

FLAMMABLE LIMITS (STP IN AIR) LFL: 0.2 OZ. /CU. FT.

UFL: 3.5 OZ. /CU. FT.

EXTINGUISHING MEDIA: WATER OR CO2.

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: WEAR PROTECTIVE FIRE FIGHTING CLOTHING AND AVOID BREATHING VAPORS.
USE SELF-CONTAINED BREATHING APPARATUS IN CLOSED AREAS.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: STABLE

INCOMPATIBILITY: CAUTION NECESSARY WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION: SULFUR DIOXIDE, CARBON DIOXIDE, AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 5 MINUTES WHILE HOLDING EYELIDS OPEN. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

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

SWALLOWING: IF LARGE QUANTITY IS 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: Q6

VENTILATION: GENERAL AND LOCAL VENTILATION AS NEEDED TO CONTROL DUST.

RESPIRATORY PROTECTION: USE NIOSH APPROVED RESPIRATOR WITH DUST AND MIST PROTECTION (3M NO. 8710).

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

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

EXPOSURE GUIDELINE(S): TWA=10 MG/M3 DUST.



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: NOT ESTABLISHED.

SPECIAL HANDLING: SCOOP INTO CONTAINERS. FLUSH RESIDUAL WITH PLENTY OF WATER.

DISPOSAL METHOD FOR:

PRODUCT: HAZARDOUS WASTE LANDFILLED. MATERIAL MAY BE ACCEPTABLE IN SOME SANITARY LANDFILLS; CHECK LOCAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: NONE.

CONTAINER: SEND EMPTY BAGS TO SANITARY LANDFILL. RENDER OTHER TYPES OF CONTAINERS UNUSEABLE BY PUNCTURING OR CRUSHING AND SEND TO SANITARY LANDFILL.

DEGRADABILITY: PARTIALLY BIODEGRADABLE.

FISH TOXICITY: NO INFORMATION.

ANIMAL TOXICITY: LOW TOXICITY TO MAMMALS.

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

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

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

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

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

INHALATION: NO EFFECT EXPECTED. PROLONGED OR REPEATED EXPOSURE MAY CAUSE MILD IRRITATION. NUISANCE DUST.

OTHER: NONE.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: NONE.

PHYSICAL HAZARD: DUST.

HANDLING AND STORAGE PRECAUTIONS: AVOID FREEZING. IF FROZEN, MIX WELL AFTER THAWING.

PACKAGING INFORMATION: PAPER BAG. (MINIMUM 3 PLY), OR OTHER INDUSTRIAL CONTAINER DESIGNED FOR POWDERS AND GRANULATED MATERIALS.

ADDITIONAL INFORMATION: NORMAL PRECAUTIONS COMMON TO GOOD MANUFACTURING PRACTICE SHOULD BE FOLLOWED.

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. NOT APPLICABLE
BOILING PT. NOT AVAILABLE

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING

ICC ITEM NUMBER: DOT CLASS: 55 LTL TL

DEPARTMENT OF TRANSPORTATION - DOT

DESCRIPTION: NOT REGULATED
HAZARD CLASS: NOT RESTRICTED
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:
LABEL(S):
CLASS:
MARPOL:

PKG GROUP: IMDG PAGE:

AIR SHIPMENTS (IATA) -

SHIPPING NAME:
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:
CLASSIFICATION (LABEL):
LABEL DESCRIPTION:
ADR CLASS: RID CLASS: TREM CARD:
HAZARD CLASSIFICATION:
COMMENT: