



MATERIAL SAFETY DATA SHEET

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P-MTR4L

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CHEMICAL CODE: P-MTR4L
PRODUCT NAME: HIGH TEMPERATURE RETARDER LIQUID
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: NOVEMBER 02, 2000



NFPA RATING:

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

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

NOMINAL COMPOSITION:

LIGNIN - AMORPHOUS POLYMER

CAS NUMBER

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	WOOD CHEMICALS	FORM:	LIQUID
COLOR:	BROWN LIQUID	ODOR:	SLIGHT ODOR
VAP DENSITY (AIR=1):	1.21 @ 20 C	% SOL. IN WATER:	100
PH:	5.5 – 7	S. GRAVITY:	1.07
BULK DENSITY	(G/ML) NOT APPLICABLE	BOILING POINT:	104 C
VAP. PRESSURE:	(MM HG) 14.2 @ 20 C	WT% VOLATILE:	44

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC:

FLASH POINT: NOT APPLICABLE METHOD USED:

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

EXTINGUISHING MEDIA:

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: CONTACT 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: Q0

VENTILATION: GENERAL VENTILATION IS REQUIRED.

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

PROTECTIVE CLOTHING: CLEAN, BODY COVERING CLOTHING.

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

EXPOSURE GUIDELINE(S):



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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).

DISPOSAL METHOD FOR: INCINERATE, BURY OR FLUSH TO SEWER FOLLOWING APPLICABLE REGULATIONS.

PRODUCT:

EPA HAZARDOUS WASTE NUMBER: NONE.

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

DEGRADABILITY:

FISH TOXICITY: 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: 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. SIMILAR ACTIVE INGREDIENT IS USED IN CATTLE FEED.

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

OTHER: NONE.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: NONE.

PHYSICAL HAZARD: NONE.

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

PACKAGING INFORMATION: STEEL OR PLASTIC 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 #): EXCLUDED

FLASH PT. NOT APPLICABLE
BOILING PT. 104 C

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING

ICC ITEM NUMBER:

DOT CLASS: LIGNIN LIQUID – CLASS 55

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: 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:

CLASSIFICATION (LABEL):

LABEL DESCRIPTION:

ADR CLASS:

RID CLASS:

TREM CARD:

HAZARD CLASSIFICATION:

COMMENT: A1 = EXERCISE REASONABLE CARE AND CLEANLINESS.