



# SAFETY DATA SHEET

PETROCHEM, INC.  
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**EMERGENCY CONTACT: CHEMTREC**  
1-800-424-9300 (INTERNATIONAL 1-703-527-3887 – COLLECT CALLS ACCEPTED)

## P-LTRL

CHEMICAL CODE: P-LTRL  
PRODUCT NAME: LOW TEMPERATURE RETARDER LIQUID  
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: APRIL 16, 2012



### NFPA RATING:

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

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

### NOMINAL COMPOSITION:

LIGNIN - FERMENTED SPENT SULFITE LIQUOR

### CAS NUMBER

### SECTION 1 - PHYSICAL DATA

<b>CHEMICAL NATURE:</b>	Surfactant	<b>FORM:</b>	Liquid
<b>COLOR:</b>	Dark brown	<b>ODOR:</b>	Slight odor
<b>VAP DENSITY (air=1):</b>	< 1	<b>% SOL. IN WATER:</b>	100
<b>pH:</b>	5.5 – 7	<b>S. GRAVITY:</b>	1.25
<b>BULK DENSITY (g/ml)</b>	35 deg. F (1.7 deg C)	<b>BOILING POINT:</b>	212 F
<b>VAP. PRESSURE:</b>	Not determined	<b>WT% VOLATILE:</b>	> 50

### SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

**CHARACTERISTIC:** WILL BURN AT HIGH TEMPERATURES.

**FLASH POINT:** 485 DEG. F 252 DEG. C

**METHOD USED:** PENSKY-MARTENS CC

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

**UFL:** NOT DETERMINED

**EXTINGUISHING MEDIA:** WATER FOG, ALCOHOL FOAM, CO<sub>2</sub>, AND DRY CHEMICAL.

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



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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 OXIDE, CALCIUM OXIDES, AND HARMFUL ORGANIC CHEMICAL FUMES ARE REALIZED.

**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 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:** 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):** TLV (ACGIH 86-87) AND PEL (OSHA 86) LIMITS 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).

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

**DEGRADABILITY:** PARTIALLY BIODEGRADABLE. BOD = 0.25 P/P; COD = 0.5 P/P

**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:** 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.

## 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:** UNCOATED PHOSPHATIZED STEEL DRUM (DOT 17E); PLASTIC CAN FOR SHORT-TERM STORAGE ONLY.

**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. 485 DEG F, 252 DEG C  
BOILING PT. NOT DETERMINED

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING  
ICC ITEM NUMBER: 138640 DOT 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): 464.3000

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.