



MATERIAL SAFETY DATA SHEET

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P-HTR

CHEMICAL CODE: P-HTR
PRODUCT NAME: HIGH TEMPERATURE RETARDER
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EFFECTIVE DATE: November 2, 1988

NFPA RATING:

Health Hazard: 1 **Flammability:** 1 **Reactivity:** 0 **Other:** None

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Nominal Composition:

Proprietary blend of lignosulfonate.

CAS Number

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	Lignosulfonate	FORM:	Powder
COLOR:	Brown Powder	ODOR:	Slight
VAP DENSITY (air=1):	N/A	% SOL. IN WATER:	100
pH:	8.5 (3 percent)	S. GRAVITY:	1.3
BULK DENSITY (cuft/sk)	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. Dust explosion potential.

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.



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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: 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.

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: May be incinerated (preferred) or 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.



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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.

SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: None.

PHYSICAL HAZARD: Dust.

HANDLING AND STORAGE PRECAUTIONS: Keep material dry.

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 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:
Label(s):
Class: **Pkg Group:** **IMDG Page:**
MARPOL:

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: