



# MATERIAL SAFETY DATA SHEET

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## P-NSL2

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CHEMICAL CODE: P-NSL  
PRODUCT NAME: NONIONIC SURFACTANT LIQUID  
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: MARCH 01, 2014



### NFPA RATING:

HEALTH HAZARD: 3      FLAMMABILITY: 1      REACTIVITY: 0      OTHER:

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

### NOMINAL COMPOSITION:

PROPRIETARY MIXTURE CONTAINING  
WATER  
AROMATIC ALCOHOL GLYCOL ETHER

### CAS NUMBER

CAS 7732-18-5; 10-30%  
60-100%

### SECTION 1 - PHYSICAL DATA

<b>CHEMICAL NATURE:</b>	AROMATIC ALCOHOL GLYCOL ETHER	<b>FORM:</b>	LIQUID
<b>COLOR:</b>	LIGHT BROWN	<b>ODOR:</b>	FAINT
<b>VAP DENSITY (AIR=1):</b>	> 1	<b>% SOL. IN WATER:</b>	SOLUBLE
<b>PH:</b>	6-8 (68 °F)	<b>SP. GRAVITY:</b>	1.044
<b>POUR PT.:</b>	39 °F	<b>BOILING POINT:</b>	240 °F
<b>VAP. PRESSURE:</b>	NOT DETERMINED	<b>WT% VOLATILE:</b>	NOT DETERMINED

### SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

**CHARACTERISTIC:** STABLE

**FLASH POINT:** 250 °F      **METHOD USED:** N/A

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

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



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## SECTION 3 - REACTIVITY HAZARDS

**STABILITY:** THIS MATERIAL IS CONSIDERED STABLE UNDER NORMAL AMBIENT & ANTICIPATED STORAGE AND HANDLING CONDITIONS OF TEMPERATURE AND PRESSURE.

**INCOMPATIBILITY:** OXIDIZERS.

**HAZARDOUS DECOMPOSITION:** WHEN HEATED STRONGLY OR BURNED, OXIDES OF CARBON, NITROGEN OXIDES, AMMONIA AND HARMFUL ORGANIC CHEMICAL FUMES ARE RELEASED.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

## SECTION 4 - FIRST AID PROCEDURES

**EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN, REMOVE CONTACT LENSES AND PROTECT UNHARMED EYE. SEE A DOCTOR AT ONCE.

**SKIN CONTACT:** IMMEDIATELY REMOVE CONTAMINATED CLOTHES AND SHOES. WASH SKIN THOROUGHLY WITH SOAP AND WATER FOR 15 MINUTES. SEE A DOCTOR IF IRRITATION OCCURS. WASH CLOTHES THOROUGHLY BEFORE REUSING

**SWALLOWING:** IF SEVERAL GRAMS ARE SWALLOWED, GIVE 2 GLASSES OF MILK (PREFERRED) OR WATER AND SEEK MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

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

**NOTES:** NONE.

## SECTION 5 - HANDLING PRECAUTIONS

**PROTECTIVE EQUIPMENT CODE:** Q1

**VENTILATION:** GENERAL AND LOCAL VENTILATION AS REQUIRED TO CONTROL DUST OR VAPORS. PROVIDE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS.

**RESPIRATORY PROTECTION:** NONE NORMALLY NEEDED. USE NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR/ ACID GAS PROTECTION (COLOR CODED YELLOW).

**PROTECTIVE CLOTHING:** CLEAN, BODY-COVERING CLOTHING AND IMPERVIOUS (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: N/A

**SPECIAL HANDLING:** SCOOP INTO CONTAINERS. AVOID BREATHING VAPOR. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. 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.

#### **DISPOSAL METHOD FOR:**

**PRODUCT:** SHIP VIA PERMITTED WASTE HAULER TO PERMITTED HAZARDOUS WASTE DISPOSAL FACILITY FOR INCINERATION (PREFERRED) OR LANDFILLING.

**EPA HAZARDOUS WASTE NUMBER:** N/A

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

**DEGRADABILITY:** (0=N/A INORGANIC OR READILY BIODEGRADABLE; 1=DEGRADES AT LOW CONCENTRATIONS; 4=NOT READILY BIODEGRADABLE; OR DESCRIBE OTHER): NOT DETERMINED.

**FISH TOXICITY:** LC50: 96H = 24 MG/L

**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:** IRRITANT. MAY CAUSE PAIN, REDNESS, AND DISCOMFORT.

**SKIN CONTACT:** IRRITANT. MAY CAUSE PAIN, REDNESS, AND DERMATITIS. NOT LIKELY TO BE ABSORBED IN TOXIC AMOUNTS.

**SWALLOWING:** LOW TOXICITY IF SWALLOWED. SWALLOWING LARGE AMOUNTS MAY CAUSE INJURY OR ILLNESS.

**INHALATION:** PROLONGED OR REPEATED EXPOSURE MAY CAUSE SERIOUS ADVERSE EFFECTS, EVEN DEATH. VAPOR MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT (NOSE AND THROAT). MIST MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT (NOSE AND THROAT).

**OSHA HAZARD COMMUNICATION STANDARD:**

N/A



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### **SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION**

**SPECIAL PRECAUTIONS:** NONE.

**PHYSICAL HAZARD:** FIRE, WATER SLICK.

**HANDLING AND STORAGE PRECAUTIONS:** KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. DO NOT CUT OR WELD ON CONTAINER. KEEP MATERIAL DRY. POSSIBLE DUST EXPLOSION HAZARD.

**PACKAGING INFORMATION:** STEEL OR HIGH DENSITY POLYETHYLENE (HDPE) CONTAINER.

**ADDITIONAL INFORMATION:**

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOR. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. SEE

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## SHIPPING INFORMATION

ID NUMBER (UN # OR NA #):  
FLASH PT. 250 °F  
BOILING PT. 240 °F

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING.

ICC ITEM NUMBER: ICC CLASS: 50 LTL 35 TL

### DEPARTMENT OF TRANSPORTATION - DOT

DESCRIPTION: NOT REGULATED  
HAZARD CLASS: NOT REGULATED  
SHIPPING NAME:  
DOT LABEL:  
COMMENT:  
DS TANK EX. #: N/A  
CERCLA RQ:

### 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: