



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name PLS - Protective Lubricating Spray
Product use Lubricant
Product code 1043
Date of issue 11/28/11 **Supersedes** 03/12/09

Emergency Telephone Numbers

For MSDS Information:
 Technical Services Group
 Telephone (780) 453-8100
 (Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

Prepared By

Technical Services Group
 11627 178th Street
 Edmonton, Alberta T5S 1N6

Printing date: 13/12/11

Section 2. Hazards Identification

Emergency overview

WARNING !

COMBUSTIBLE.

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation.

Eyes Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching.

Skin Irritating to skin. Direct contact may cause irritation and redness.

Inhalation Harmful by inhalation. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, mucous membranes, heart, brain, skin, eyes, central nervous system (CNS), ears, testes.

May cause Effects on the embryo, fetus or newborn.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

LIGHT AROMATIC NAPHTHA; aromatic hydrocarbon solvent; solvent naphtha (petroleum)	64742-95-6	10 - 30
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	10 - 30
ALIPHATIC NAPHTHA; ligroin; stoddard solvent	8052-41-3	10 - 30
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	64742-52-5	10 - 30
PROPRIETARY BLENDED SALTS OF OXYGENATED AND SULFONATED HYDROCARBONS		10 - 30
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Closed cup: 46.11°C (115°F)

Flammable Limits Lower: 0.7%
Upper: 6.5%

Flammability Combustible liquid.

Auto-ignition Temperature

Fire-Fighting Procedures

Use dry chemical, CO₂, water spray (fog) or foam. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire hazard

COMBUSTIBLE LIQUID AND VAPOR. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Products of Combustion

carbon oxides (CO, CO₂)

Explosion hazard

Not available.

Section 6. Accidental Release Measures

Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed in a cool, well-ventilated place. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Avoid all possible sources of ignition (spark or flame). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

Hydrotreated Light Petroleum Distillates

Aliphatic Naphtha

Paraffin Oil

ALOX 2213A

Diethylene Glycol Monobutyl Ether

Exposure limits

Supplier Suggested (United States).

TWA: 100 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 100 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 100 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

: 2 mg/m³ Form: Fume

Manufacturer (United States).

TWA: 35 ppm 8 hour(s).

Personal Protective Equipment (PPE)

Eyes Safety glasses.



Hands and Body Neoprene gloves. Nitrile gloves. or Rubber gloves. Butyl rubber gloves.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridge.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Brown. Clear. [Dark]

pH Not applicable

Odor Pleasant. [Strong]

Boiling Point 150°C (302°F)

Vapor Pressure Not available.

Specific Gravity 0.85

Vapor Density >1 [Air = 1]

Solubility Very slightly soluble in the following materials: cold water and hot water.

Evaporation Rate <1 (Butyl acetate. = 1)

Freezing Point

VOC (Consumer) 41.5% 2.94 (lb/gal) 352 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity No known significant effects or critical hazards.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Light Aromatic Naphtha	LD50 Oral	Rat	4700 mg/kg	-
	LC50 Inhalation Vapor	Rat	3670 ppm	8 hours
Hydrotreated Light Petroleum Distillates	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ALOX 2213A	LD50 Oral	Rat	4800 mg/kg	-
Diethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001
Classification: - (Ignitable hazardous waste.)

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
IMDG Class						-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada**

WHMIS (Canada) Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.