



# MATERIAL SAFETY DATA SHEET

**Supplier:** Moose Jaw Refinery  
 641 Manitoba Street East  
 Moose Jaw, SK S6H 6E3




**24 Hour Emergency Telephone Number:**  
**1-306-691-7800**

## 1. PRODUCT IDENTIFICATION

**LSRD (Light Straight Run Distillate)**

### Synonyms:

- 1. Straight run middle distillate, Gas Oil

WHMIS	
<b>Class B:</b> Combustible Material 	<b>Class D, Div 1:</b> Poisonous Material 
TDG	
	<b>Shipping Name:</b> Petroleum Distillates, n.o.s. <b>P.I.N.:</b> 1268 Class 3 PGIII

**CANUTEC Emergency Transport (613) 996-6666**

### Description:

LSRD is used as an asphalt solvent and as a fuel.

## 2. HAZARDOUS INGREDIENTS

The following components are defined in accordance with subparagraph 13(a)(i) to (iv) or paragraph 14(a) of the Hazardous Product Act.

NAME	LD <sub>50</sub>	LC <sub>50</sub>	CAS #
Gas	>5000 mg/kg	1700 mg/kg	64741-44-2
Oil	(oral, rat)	(inhaled, rat, 4 hr)	

## 3. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Specific Gravity:</b>	
<b>Density:</b>	0.82 kg/L (approx.) @ 15°C
<b>Appearance/Odor:</b>	Amber oily liquid with hydrocarbon odor.
<b>Odor Threshold:</b>	Not applicable
<b>Reid Vapor Pressure:</b>	0.8 kPa (approx.) @ 38°C
<b>Vapor Density:</b>	4.5 (approx.) @ 20°C
<b>Evaporation Rate:</b>	
<b>Boiling Point/Range:</b>	175-274°C (approx.) @ 1 atm

<b>Viscosity:</b>	Max. 2.5 cSt @ 40°C
<b>pH:</b>	
<b>Solubility In Water:</b>	Insoluble
<b>Coeff. of Water/Oil Dist:</b>	

## 4. TOXICOLOGICAL PROPERTIES

### ACUTE EFFECTS:

#### Inhalation:

Inhalation of vapors or mist will cause headaches, nausea, dizziness, and intoxication; severe central nervous system depressant.

#### Eye Contact:

Eye contact may cause irritation, but not permanent damage.

#### Skin Contact:

Irritation, defatting and drying of skin.

#### Ingestion:

Ingestion not likely. Side effects may include coughing, nausea, vomiting or fever.

### CHRONIC EFFECTS:

**Skin Contact:** Prolonged exposure to skin may cause chapping, cracking or possibly dermatitis.

### Toxicity Data:

Suspected carcinogen. Kerosene (similar) has been listed by ACGIH as an animal (A3) carcinogen.

### Occupational Exposure Limits (OELs) Recommended:

	Gas Oil (kerosene)
<b>ACGIH:</b>	
<b>TLV</b>	200 mg/m <sup>3</sup> (twa)

## 5. FIRST AID MEASURES

### Eye Contact:

Copious warm water flush – 15 minutes. Physician assessment mandatory.

### Inhalation:

Evacuate to fresh air. Apply cardio-pulmonary resuscitation if required. Administer oxygen if available. If resuscitation is required, physician assessment mandatory.

### Skin Contact:

Remove contaminated clothing – launder before reuse. Soap and water wash. Discard saturated leather articles.



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## Ingestion:

DO NOT INDUCE VOMITING. If vomiting – take care to prevent aspiration. Give 250ml of milk to drink. Liquid paraffin may slow gastric absorption. Give activated charcoal tablets only if prescribed by physician. Physician assessment mandatory.

## Emergency Procedures:

Gastric lavage should only be done after endotracheal intubation in view of the risk of aspiration which can cause serious chemical pneumonitis for which antibiotic and corticosteroid therapy may be indicated.

## 6. PREVENTATIVE AND CORRECTIVE MEASURES

### Special Protection Information:

General ventilation. Use explosion-proof mechanical ventilation suitable for group D atmospheres. Respiratory protection up to 5 mg/m<sup>3</sup> (oil mist), none required. From 5 to 50 mg/m<sup>3</sup>, use an approved organic vapor respirator suitable for oil mist in areas with sufficient oxygen. Above 50 mg/m<sup>3</sup>, use full-face air-supplied or self-contained breathing apparatus. Protective gloves should be of nitrile, viton. Chemical splash goggles must be worn, if splashing is likely. Chemical resistant clothing should be worn if direct contact with liquid is likely. DO NOT USE NATURAL RUBBER or PVC (polyvinyl chloride).

### Spill Control And Disposal:

Avoid contact. Use full protective equipment and breathing apparatus. ELIMINATE IGNITION SOURCES. Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using electrically grounded explosion-proof pumps. Place absorbent in closed metal containers. DO NOT FLUSH TO SEWER.

### Handling and Storage:

Store in cool, well-ventilated area. Electrically ground/bond during the pumping or transfer to avoid static accumulation. AVOID SKIN CONTACT and INHALATION. Practice good personal hygiene. DO NOT SIPHON BY MOUTH OR USE AS A CLEANING SOLVENT. Launder work clothes frequently.

### Waste Disposal Method:

Incinerate at licensed waste reclaimer facility.

## 7. FIRE AND EXPLOSION HAZARD

Flash-Point (Method=PMCC)	55°C (min)
Auto-Ignition:	>225°C
Flammable Limits (%Volume):	Lower 0.7%, Upper 5.0%

### General Hazards:

Treat as a flammable liquid.

## Fire Fighting:

MODERATE FIRE HAZARD. Use full protective equipment and self-contained breathing apparatus. Cover with extinguishing agent. Use water spray to cool fire-exposed containers and as a protective screen. Do not point solid water stream directly into burning oil to avoid spreading. Do not cut, drill or weld empty containers.

## 8. REACTIVITY DATA

### Stability:

Stable under normal storage and use.

### Incompatible Materials and Conditions to Avoid:

Avoid excessive heat, sources of ignition, formation of oil mist. Avoid strong oxidizing agents (strong acids, peroxides, chlorine, etc.).

### Hazardous Decomposition Products:

CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub> and dense smoke on combustion

## 9. PREPARATION

Prepared by:	Moose Jaw Refinery (306) 691-7800
Date:	May 2011
Expires:	May 2014

## CAUTION

Moose Jaw Refinery assumes no responsibility for injury to anyone caused by the product if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Moose Jaw Refinery assumes no responsibility for injury to anyone caused by abnormal use of the product even if reasonable safety procedures are followed. Furthermore, vendee and third persons assume the risk in their use of the product.