

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Telephone numbers:</b>	(517) 546-4520
<b>Manufacturer/Supplier:</b>	CHEM-TREND LP P.O. BOX 860 HOWELL, MI 48844-0860
<b>Product Name:</b>	LUSIN® PROTECT O 45 F AEROSOL

## 2. HAZARDS IDENTIFICATION

<b>Physical State:</b>	Aerosol
<b>Appearance:</b>	Aerosol
<b>Color:</b>	Milky
<b>Odor:</b>	Characteristic
<b>Emergency Overview:</b>	DANGER: FLAMMABLE!
<b>Principle routes of exposure:</b>	Skin, eyes, respiratory tract, gastrointestinal tract

See Toxicological Information (section 11)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry Number	Weight %
Propane/isobutane/N-butane	68476-86-8	80 - 90%
White petroleum oil	8042-47-5	10 - 20%
Corrosion inhibitor blend	Proprietary	1 - 5%

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### 4. FIRST AID MEASURES

<b>Skin contact:</b>	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes
<b>Eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and contact a physician
<b>Inhalation:</b>	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion:</b>	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis. Contact a physician immediately.
<b>Aggravated Medical Conditions:</b>	No information available
<b>Notes to physician:</b>	No information available

### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	-156°F, -104°C
<b>Flame extension test, inches (aerosol products only):</b>	Not applicable or no information available.
<b>Suitable extinguishing media:</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Foam. Do not use a direct stream of water..
<b>Unusual hazards:</b>	Extremely flammable. The pressure in sealed containers can increase under the influence of heat.
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific methods:</b>	Standard procedure for chemical fires. Cool containers / tanks with spray water
<b>Explosive properties:</b>	No information available.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Method(s) for cleanup:</b>	
<b>Small spills:</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Take precautionary measures against static discharges.
<b>Large spills:</b>	Dam up. Take up mechanically and collect in a suitable properly labelled chemical waste container for disposal. Take precautionary measures against static discharges.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	
<b>Technical measures/precautions:</b>	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

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### 7. HANDLING AND STORAGE

**Safe handling advice:** Do not spray on a naked flame or any other incandescent material. Handle in accordance with good industrial hygiene and safety practice. Normal measures of preventive fire protection. Do not re-use empty containers for other materials.

**Storage:**

**Technical measures/storage conditions:** Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 110°F.

**Incompatible products:** Strong oxidizing agents.

**Other precautions:** The pressure in sealed containers can increase under the influence of heat.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS Registry Number	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
Propane/isobutane/N-butane	68476-86-8	-	-	-	-
White petroleum oil	8042-47-5	-	-	-	-
Corrosion inhibitor blend	Proprietary	-	-	-	-

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Personal Protective Equipment

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection:** Impervious gloves

**Eye protection:** Tightly-fitting safety goggles or safety glasses with side shields.

**Skin and body protection:** Lightweight protective clothing. Usual safety precautions while handling the product will provide adequate protection against this potential effect

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Initial boiling point:** <43°F, -42°C

**Specific gravity:** 0.59

**Bulk density (lb/gal):** 4.93

**Vapor pressure in mm Hg at 20 °C (68 °F):** 50 - 60 psig

**Vapor density (air = 1):** Not determined.

**Evaporation rate:** Not determined.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Volatiles content (%):</b>	75 - 85%
<b>Solubility in water:</b>	Insoluble
<b>pH of concentrate:</b>	Not determined.
<b>Melting point/range:</b>	Not applicable
<b>Flash point:</b>	-156°F, -104°C
<b>Flammability limits in air:</b>	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
Propane/isobutane/N-butane	68476-86-8	1.8	9.5

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid:</b>	Strong oxidising agents.
<b>Hazardous decomposition products:</b>	Carbon oxides
<b>Polymerization:</b>	Hazardous polymerisation does not occur

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Component Information:

Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propane/isobutane/N-butane	68476-86-8	-	-	-
White petroleum oil	8042-47-5	5000 mg/kg ( Rat )	-	-
Corrosion inhibitor blend	Proprietary	-	-	-

#### Acute effects **Product contains proprietary ingredients. Health hazards are listed below.**

<b>Skin contact:</b>	Prolonged contact may defat skin, causing irritation and/or dermatitis.
<b>Eye contact:</b>	May cause eye irritation
<b>Inhalation:</b>	High levels above the TLV cause stupor, headache, nausea, dizziness, unconsciousness, and may produce adverse effects on vision.

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### 11. TOXICOLOGICAL INFORMATION

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury.

**Sensitization:** No information available.

**Other effects:** No information available.

#### Chronic effects

##### Carcinogenic effects:

Ingredient	CAS Registry Number	NTP:	IARC:	OSHA:
Propane/isobutane/N-butane	68476-86-8	No	No	No
White petroleum oil	8042-47-5	No	No	No
Corrosion inhibitor blend	Proprietary	No	No	No

**Mutagenic effects:** No information available

**Reproductive toxicity:** No information available

**Target organ effects:** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

### 13. DISPOSAL CONSIDERATIONS

**Method(s) of disposal:** Dispose of in accordance with local, state, and federal regulations.

**US EPA Waste code(s):** D001 because of its ignitability if the product is disposed of in its original form.

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## 14. TRANSPORTATION INFORMATION

**IMDG - Marine Pollutants** This product does not contain marine pollutants as classified by the International Maritime Organization.

**Emergency Response Guidebook 126 (ERG) No:**

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name:	Hazard Class:		Packing group:
DOT - Non-Bulk	-	Consumer commodity	-	ORM-D		-
DOT - Bulk	-	Consumer commodity	-	ORM-D		-
Canadian TDG	-	Consumer commodity	-	ORM-D		-
ICAO/IATA	UN1950	Aerosols, flammable	-	2.1		-
IMO/IMDG	UN1950	Aerosols	-	2.1		-

## 15. REGULATORY INFORMATION

### U.S. Regulations

**OSHA Hazardous Chemical:** Yes

### Sara Title III

**CERCLA/SARA (304) Hazardous Substances and RQs**

Ingredient	CAS Registry Number	Weight %	RQ
Propane/isobutane/N-butane	68476-86-8	80 - 90%	-
White petroleum oil	8042-47-5	10 - 20%	-
Corrosion inhibitor blend	Proprietary	1 - 5%	-

**SARA (302) Extremely Hazardous Substances and RQs**

Ingredient	CAS Registry Number	Weight %	RQs
Propane/isobutane/N-butane	68476-86-8	80 - 90%	-
White petroleum oil	8042-47-5	10 - 20%	-
Corrosion inhibitor blend	Proprietary	1 - 5%	-

**SARA (311/312) Classification:**

**Acute health hazard:** Yes  
**Chronic health hazard:** No  
**Fire:** Yes  
**Sudden release of pressure:** Yes  
**Reactive:** No

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## 15. REGULATORY INFORMATION

### SARA (313) Toxic Chemicals

Ingredient	CAS Registry Number	Weight %	SARA (313) List
Propane/isobutane/N-butane	68476-86-8	80 - 90%	Not Listed
White petroleum oil	8042-47-5	10 - 20%	Not Listed
Corrosion inhibitor blend	Proprietary	1 - 5%	Not Listed

### International Inventories

<b>Australia:</b>	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
<b>Canada:</b>	This product complies with DSL
<b>China:</b>	This product complies with CLECS.
<b>Europe:</b>	This product complies with EINECS
<b>Japan:</b>	This product does not comply with ENCS/MITI.
<b>Korea:</b>	Listed on ECL.
<b>New Zealand:</b>	This product complies with NEWZ
<b>Philippines:</b>	This product complies with PICCS.
<b>United States:</b>	This product complies with TSCA.

**16. OTHER INFORMATION****Hazardous Material Information System (USA):**

**Health:** 1      **Flammability:** 4      **Physical hazard:** 0      **Personal Protection code:** H

**National Fire Protection Association (USA):**

**Health:** 1      **Flammability:** 4      **Instability:** 0      **Special Hazards:** None

All revisions are marked with one or more asterisks (\*)

**Prepared by:** Karen M. Kuroda

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***Disclaimer***

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