

MATERIAL SAFETY DATA SHEET

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

Telephone numbers: (517) 546-4520

Manufacturer/Supplier: CHEM-TREND LP
P.O. BOX 860
HOWELL, MI 48844-0860

Product Name: Lusin® Alro OL 153 FS Aerosol

2. HAZARDS IDENTIFICATION

Physical State: Aerosol

Appearance: Aerosol

Color: Colourless

Odor: characteristic

Emergency Overview: DANGER: FLAMMABLE!

Principle routes of exposure: Skin, eyes, respiratory tract, gastrointestinal tract

See Toxicological Information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry Number	Weight %
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	10 - 20%
Release blend	Proprietary	1 - 5%
Propane/isobutane/N-butane	68476-86-8	80 - 90%

Lusin® Alro OL 153 FS Aerosol

4. FIRST AID MEASURES

Skin contact:	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and contact a physician
Inhalation:	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.
Ingestion:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis. Contact a physician immediately.
Aggravated Medical Conditions:	No information available
Notes to physician:	No information available

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Method(s) for cleanup:	
Small spills:	Soak up with inert absorbent material and dispose of as hazardous waste. Take precautionary measures against static discharges.
Large spills:	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

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

Lusin® Alro OL 153 FS Aerosol

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
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	-	-	-	-
Release blend	Proprietary	-	-	-	-
Propane/isobutane/N-butane	68476-86-8	-	-	-	-

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: 0.58

Bulk density (lb/gal): 4.80

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

Vapor density (air = 1): Not determined.

Evaporation rate: Not determined.

Lusin® Alro OL 153 FS Aerosol

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatiles content (%):	90 - 100%
Solubility in water:	Insoluble
pH of concentrate:	Not determined.
Melting point/range:	Not applicable
Flash point:	-156°F, -104°C
Flammability limits in air:	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	0.9	6.3
Propane/isobutane/N-butane	68476-86-8	1.8	9.5

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	7000 mg/kg (Rat)	2000 mg/kg (Rabbit)	5.04 mg/L (Rat) 4 h
Release blend	Proprietary	-	-	-
Propane/isobutane/N-butane	68476-86-8	-	-	-

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

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

Lusin® Alro OL 153 FS Aerosol

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:
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	No	No	No
Release blend	Proprietary	No	No	No
Propane/isobutane/N-butane	68476-86-8	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.

Lusin® Alro OL 153 FS Aerosol

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	-	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
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	10 - 20%	-
Release blend	Proprietary	1 - 5%	-
Propane/isobutane/N-butane	68476-86-8	80 - 90%	-

SARA (302) Extremely Hazardous Substances and RQs

Ingredient	CAS Registry Number	Weight %	RQs
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	10 - 20%	-
Release blend	Proprietary	1 - 5%	-
Propane/isobutane/N-butane	68476-86-8	80 - 90%	-

SARA (311/312) Classification:

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

Lusin® Alro OL 153 FS Aerosol

15. REGULATORY INFORMATION

SARA (313) Toxic Chemicals

Ingredient	CAS Registry Number	Weight %	SARA (313) List
Synthetic Isoparaffinic Hydrocarbon	64741-66-8	10 - 20%	Not Listed
Release blend	Proprietary	1 - 5%	Not Listed
Propane/isobutane/N-butane	68476-86-8	80 - 90%	Not Listed

International Inventories

Australia:	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
Canada:	This product complies with DSL
China:	This product complies with CLECS.
Europe:	This product complies with EINECS
Japan:	This product complies with ENCS/MITI.
Korea:	Listed on ECL.
New Zealand:	This product complies with NEWZ
Philippines:	This product complies with PICCS.
United States:	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

Revision number: 0

Revision date: 05/31/2009

Review date: 10/20/2009

Print date: 10/20/2009

Disclaimer

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.