

Lube-Sil™

FOOD GRADE DRY SILICONE LUBRICANT

DESCRIPTION

Lube-Sil™ is a high quality, clear, pure food grade dry silicone friction reducing film for effectively eliminating binding and sticking of all types as well as acting as a release agent under a wide range of temperatures on all types of surfaces.

AREAS OF APPLICATION

High quality, dry, friction reducing film used to eliminate sticking or binding on all types of surfaces (metal, painted and unpainted, glass, rubber, plastic, fabric, etc). Stops troublesome “poly-build-up” on the guides, mandrels and transfer chutes of pure-pak carton machines. Reduces the adherence of food splatter or spillover on exterior surfaces of food processing equipment while at the same time enhances and protects such surfaces (eg. cooking vessels, cutters, saws, mixers, extruders, -fryers, baking and freezing equipment, ovens, conveyors and -packaging machines) in bakeries, snack and frozen food industries, fish/poultry and red meat plants, wineries, beverage and dairy operations, commercial or -institutional kitchens, restaurants and packaging operations.

SPECIAL FEATURES

Highly Effective - developed especially for use in food processing and packaging industries to quickly and effectively eliminate friction and prevent surface adherence.

Clean and Fast Drying - dries quickly and films evenly and effectively without stickiness, gumming or build up. Colourless and odourless. Will not stain or discolour.

Temperature Stable - effective from +232°C (+450°F) down to -40°C (-40°F).

Penetrates - penetrates deeply into mating surfaces to lubricate difficult-to-reach areas.

Safe To Use - does not attack rubber gaskets or seals. High dielectric strength makes it safer to use around electrical equipment. Contains no chlorinated solvents.

Economical - thin filming goes a long way. Lasts longer and never turns sticky.

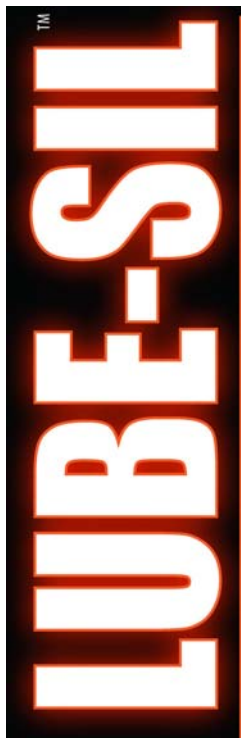
USE DIRECTIONS

Shake can before using. Surface to be sprayed should be thoroughly cleaned. Spray a very light film from a distance of 25cm (10 inches) with a sweeping motion using only the minimum amount necessary to produce the required --anti-stick properties. When used on sticking moving parts, manually work the parts re-spraying as necessary.

CAUTION: Do not overspray - causes extreme -slipperiness. Protect surrounding surfaces from -possible overspray.

NOTE: Avoid contaminating food by only using the -minimum amount of product necessary and allowing -surfaces to dry thoroughly before returning equipment to service.





PHYSICAL PROPERTIES – AEROSOL

LUBE-SIL consists of pure food grade silicone oils and penetrants.

Type	Aerosol Dry Lubricant
Appearance	Clear Liquid
Odour	Virtually None
Viscosity	Water Thin
Flammability	Flammable
Specific Gravity	0.73
Dielectric Strength	37
Toxicity (concentrate)	Low Eye/Skin Irritant

APPROVALS/CERTIFICATIONS

FOR USE IN INDUSTRIAL, INSTITUTIONAL, COMMERCIAL, MARINE and FOOD PROCESSING ENVIRONMENTS

PACKAGING Aerosol case = 12 x 368g cans

DMY200114

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MATERIAL SAFETY DATA SHEET

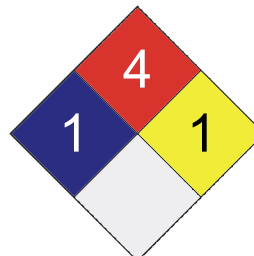
1. Product and Company Identification

Product Name LUBE-SIL
CAS # Mixture
Product Use Lubricant
Manufacturer Maxim Technologies Inc.
1607 Derwent Way
Delta, BC V3M 6K8 CA
Phone: 604-526-5655
1-613-996-6666

CANUTEC

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	4
Physical Hazard	1
Personal Protection	B



2. Hazards Identification

Emergency Overview

NOTE: The information on this MSDS is applicable only to the PRODUCT CONCENTRATE.
DANGER
Extremely flammable. Contents under pressure. Containers may explode when heated.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Direct contact with PRODUCT CONCENTRATE may cause irritation.

Skin

Direct contact with PRODUCT CONCENTRATE may cause irritation.

Inhalation

Excessive intentional inhalation of PRODUCT CONCENTRATE may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion

Ingestion of the PRODUCT CONCENTRATE may cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

Target organs

Respiratory system.

Chronic effects

Prolonged or repeated exposure to PRODUCT CONCENTRATE can cause drying, defatting and dermatitis.

Signs and symptoms

Direct contact with the PRODUCT CONCENTRATE may cause redness, edema, drying, defatting and cracking of the skin.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Naphtha (petroleum), light alkylate	64741-66-8	30 - 60
Petroleum gases, liquefied	68476-85-7	40 - 70

Composition comments NOTE: The percent ranges are applicable only to the PRODUCT CONCENTRATE.

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

Ingestion

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

General advice

NOTE: The information on this MSDS is applicable only to the PRODUCT CONCENTRATE. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting Measures

Flammable properties	Flammable aerosol by flame projection test.
Extinguishing media	
Suitable extinguishing media	Foam. Carbon dioxide. Dry chemical. Fog.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Do not touch or walk through spilled PRODUCT CONCENTRATE. Do not touch damaged containers or spilled PRODUCT CONCENTRATE unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep unnecessary personnel away.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Do not store at temperatures above 49°C. Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure limits
Naphtha (petroleum), light alkylate	ACGIH-TLV Not established
Petroleum gases, liquefied	ACGIH-TLV TWA: 1000 ppm
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations The personal protective equipment listed above is recommended for potential contact with the PRODUCT CONCENTRATE. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Aerosol.
Colour	Clear colourless
Form	Aerosol.
Odour	Characteristic
Odour threshold	Not available
Physical state	Gas
pH	Not available
Freezing point	Not available
Boiling point	60 °C (140.00 °F)
Flash point	-4 °C (24.80 °F)
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	310 kPa @ 20°C
Vapour density	> 1
Specific gravity	0.726 @ 23°C
Octanol/water coefficient	Not available
Solubility (H₂O)	Negligible
Auto-ignition temperature	Not available
Viscosity	Water thin

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Not available

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Naphtha (petroleum), light alkylate	Not available
Petroleum gases, liquefied	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Naphtha (petroleum), light alkylate	Not available
Petroleum gases, liquefied	Not available

Effects of acute exposure

Eye	Direct contact with PRODUCT CONCENTRATE may cause irritation.
Skin	Direct contact with PRODUCT CONCENTRATE may cause irritation.
Inhalation	Excessive intentional inhalation of PRODUCT CONCENTRATE may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	Ingestion of the PRODUCT CONCENTRATE may cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.

Carcinogenicity	Non-hazardous by WHMIS criteria.
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity effects	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence and degradability	Not available
Bioaccumulation/accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:

Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	UN1950
Additional information:	
Packaging exceptions	<1L - Consumer Commodity



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS classification Class A - Compressed Gas, Class B - Division 5; Flammable Aerosol

WHMIS status Controlled

WHMIS labeling



Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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