



Spray: Silicone Aerosol Lubricating Oil

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identification: **Spray: Silicone - 12 oz (340 grams)
Aerosol Lubricating Oil**

Supplier Identification: Davley Darmex Lubricants
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MSDS Print Date:

SECTION 2 – COMPONENT DATA

This product is a liquid that is insoluble in water. Direct eye contact may cause minor, short- term irritation. Short-term skin exposure is not expected to be irritating. Inhalation and ingestion are not anticipated routes of exposure during normal conditions of use.

HMIS Rating: Health: 3 Flammability: 2 Reactivity: 0 PPE: X

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade secret components.

	Cas#	%	Exposure Limit	LD/50-Route-Species	LC/50-Route-Species
Heptane	142-82-5	30 - 60	400 ppm	>15000 mg/kg-Oral-Rat	Not Available
Isobutane	75-28-5	7 - 13	1000 ppm	Not Applicable	142,500 ppm-Inhale-Rat
Min. Spirits	64742-47-8	1 - 5	100 ppm	5000 mg/kg-Oral-Rat	5,500 mg/m3 (4h)
Propane	74-98-6	10 – 30	1000 ppm	Not Applicable	Not Available
Acetone	67-64-1	5 – 10	750 ppm	>9750 mg/kg-Oral-Rat	>16,000ppm-Inhal-Rat

This product conforms to FDA, NSF and Canadian Food Inspection Agency requirements under Sections 21 CFR 178.3570 and 774.1 D78 for use where incidental contact is possible.

SECTION 3 – HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS and SYMPTOMS from SHORT / ACUTE EXPOSURE:

EYE EXPOSURE

May cause irritation.

**SKIN EXPOSURE**

May cause irritation.

SKIN ABSORPTION

No data available

INHALATION

May Cause Irritation. Propellant is a simple asphyxiant.

INGESTION

May cause headache, nausea, vomiting and weakness

POTENTIAL CHRONIC HEALTH EFFECTS

Solvents may cause defatting dermatitis

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No further data known

SECTION 4 – FIRST AID MEASURES**EMERGENCY FIRST AID PROCEDURE:**

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin, wash thoroughly with soap and water. If affected by inhalation of vapor or spray mist, remove to fresh air. If swallowed; do not induce vomiting, get medical help.

SECTION 5 – FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE: 465 °C

SPECIAL PROCEDURES

Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.

FLAMMABILITY

Flammable under conditions including excessive heat, sparks and open flame.

Flammability Limits (% volume): 1.2% Lower Flammable Limit (% volume)

12.8% Upper Flammable Limit (% volume)

EXTINGUISHING MEDIA

Water, Carbon Dioxide, Dry Chemical Foam.

EXPLOSION DATA

Sensitivity to static discharge: Not Applicable

Sensitivity to impact: Not Applicable

HAZARDOUS COMBUSTION PRODUCTS

Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.

PRODUCTS

Possible phosgene over 250°C, chlorine gas, hydrochloric acid

**FLASH POINT**

Flash Point (Tag closed Cup): Lowest known value: Acetone @ -18°C.

SECTION 6 – ACCIDENTAL RELEASE MEASURES**CLEAN-UP MEASURES:**

Important: As with any spill or leak, ensure before responding that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

If possible, safely contain the spill with dikes or other spill response equipment appropriate for petroleum or organic material releases. Take measures to prevent spreading of product. Note that while product will ignite, it will not readily burn. However, as a precaution eliminate ignition sources. Prevent from entering sewers or waterways. Large volumes may be transferred to an appropriate container for proper disposal. Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

SECTION 7 – HANDLING AND STORAGE**HANDLING**

Keep away from heat, sparks and open flame. Contents are under pressure.

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Follow all other standard industrial hygiene practices.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty containers. Keep containers closed when not in use. Product residue in empty containers is combustible but will not readily burn. NOTE however, that excessive heating or cutting of empty containers may create an ignition source sufficient to start a fire and in extreme cases, cause an explosion.

STORAGE

Store in a cool, well-ventilated area not to exceed 50°C. Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

ENGINEERING CONTROLS

Ventilation – local (mechanical if used indoors on a continuous basis)

SYNERGISTIC MATERIALS

None known.

SPECIAL COMMENTS

No further data known.



SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**PERSONAL PROTECTIVE EQUIPMENT**

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

EYE PROTECTION

Chemical resistant safety glasses are recommended to prevent eye exposure.

SKIN PROTECTION

Chemical resistant gloves are recommended.

RESPIRATORY PROTECTION

If used indoors on a continuous basis, use of a cartridge type respirator (NIOSH / MSHATC 23C or equivalent) is recommended. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

FOOTWEAR PROTECTION

Not normally required.

ENGINEERING CONTROLS

Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lower practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

The user may wish to refer to 29 CFR 1910.1000 (d) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	Clear Liquid
Odor:	Mild Petroleum Aerosol
Odor Threshold:	Not available
Physical State:	Aerosol
Vapor Pressure (PSIG) Aerosol:	45 - 55 @ 20°C
Boiling Point:	57 - 200°C
Evaporation Rate (N-Butyl Acetate=1):	>1
Vapor Density by weight (Air=1):	>1
Solubility in Water g/L (20°C):	Negligible
pH:	Not Applicable
Coefficient of Water / Oil Dist.:	Not Available
Freezing Point (°C):	Not Available
Specific Gravity (Liquid):	0.67 – 0.71



SECTION 10 – STABILITY AND REACTIVITY**INCOMPATIBILITIES**

This product is incompatible with strong oxidizing agents.

DECOMPOSITION PRODUCTS MAY INCLUDE

Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the material burns. Combustion byproducts may include:

- Possible phosgene over 250°C, chlorine gas, hydrochloric acid
- Oxides of carbon
- Incompletely burned hydrocarbons as fumes and smoke.

CONDITIONS TO AVOID

Avoid contact with incompatible materials and exposure to extreme temperatures including heat, sparks and open flame.

STABILITY

This product is stable under normal conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION**EYE EFFECTS**

Eye irritant

SKIN EFFECTS

Skin irritant

REPRODUCTIVE EFFECTS

Benzene: causes feototoxicity in animals at doses which are maternally toxic. Does not impair fertility.

SENSITIZING CAPABILITY OF MATERIAL

Unknown.

CARCINOGENICITY OF MATERIALS

Heptane contains trace amount of Benzene with carcinogenic risks to humans based on the evaluation of IARC working group.

TERATOGENICITY

No information available and no adverse effects expected.

MUTAGENICITY

Benzene – may cause heritable genetic damage

OTHER

No further toxicological data known.



SECTION 12 – ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

ENVIRONMENTAL FATE

The degree of biodegradability and persistence of this product has not been determined.

SECTION 13 – DISPOSAL CONSIDERATION**WASTE DISPOSAL**

Do not puncture or incinerate containers, even when empty. Dispose in accordance with local regulations. Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate comply with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

SECTION 14 – TRANSPORT INFORMATION**T.D.G. CLASSIFICATION**

Consumer Commodity (Aerosols, Un1950, Class 2.1).

D.O.T. CLASSIFICATION

Consumer Commodity, ORM-D

SECTION 15 – REGULATORY INFORMATION

This product conforms to FDA, NSF and Canadian Food Inspection Agency requirements under Sections 21 CFR 178.3570 and 774.1 D78 for use where incidental contact is possible.

CANADIAN REGULATIONS

- WHMIS Classification: A, B5, D2B
- CNFC Section 3.3.5: Level 3
- CEPA: All substances in this product are listed on the Canadian Domestic Substances list (DSL) or are not required to be listed

U.S. REGULATIONS

- NFPA Code 30B: Level 3
- SARA 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372: **Benzene** (trace amount in Heptane) CAS# 71-43-2

CALIFORNIA PROPOSITION 65

The following statement is made in order to comply with the California Safe drinking water and Toxic enforcement Act of 1986: Warning: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm: **Benzene** (trace amount in Heptane) CAS# 71-43-2 .

**TOXIC SUBSTANCES CONTROL ACT**

All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

VOC (W/W %)

89 - 90

SECTION 16 – OTHER INFORMATION

LAST REVISION DATE: March 25, 2010

NOTICE OF DISCLAIMER

Please note that all information provided in these MSDS sheets have been carefully edited by Davley Darmex Lubricants and are considered to be accurate at the time of issue. However, no responsibility for possible errors or omissions can be assumed and the company reserves the right to change without notice. Davley Darmex assumes no legal responsibility or warranty either expressly or by implication based on this data. Please also note that the chemical identity of some or all of the ingredients may be withheld as confidential business information as permitted by 29 CFR 1910.1200 and other relevant legislation. Duplication in whole or in part of this information without written consent is prohibited. © Davley Darmex Lubricants.