

# Material Safety Data Sheet

Material Name: 3M Silicone Lubricant

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Distributor Information

Uline  
2200 S. Lakeside Dr  
Waukegan, IL 60085

Phone: 847-473-3000  
Fax: 847-473-5157

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

DANGER! Extremely Flammable. Contents Under Pressure. Containers may explode when heated. Eye and skin irritant. May cause target organ effects. May cause frostbite.

### Potential Health Effects: Eyes

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

### Potential Health Effects: Skin

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching. Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

### Potential Health Effects: Ingestion

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

### Potential Health Effects: Inhalation

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Intentional concentration and inhalation may be harmful or fatal. May be absorbed following inhalation and cause target organ effects.

### HMIS Ratings: Health: 2 Fire: 4 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
Trade Secret	Non-Volatile Components	20-30
110-82-7	Cyclohexane	10-20
107-83-5	Isohexane	10-20
75-28-5	Isobutane	7-13
74-98-6	Propane	7-13
115-10-6	Dimethyl ether	7-13
96-14-0	3-Methylpentane	3-7
79-29-8	2,3-Dimethylbutane	1-5
75-83-2	Neohexane	1-5
110-54-3	Hexane	0.1-1

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

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

### First Aid: Skin

Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

### First Aid: Ingestion

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### First Aid: Inhalation

Remove person to fresh air. If signs/symptoms develop, get medical attention.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

# Material Safety Data Sheet

**Material Name: 3M Silicone Lubricant**

Flammable aerosol under conditions of sparks, flame, or hot surfaces. Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme temperature. Aerosol cans are under pressure. Product will be expelled rapidly if container is punctured.

## Hazardous Combustion Products

May include and are not limited to: Oxides of carbon. Toxic vapors, gas and particulates.

## Extinguishing Media

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## Fire Fighting Equipment/Instructions

Self-contained breathing apparatus should be used if product is involved in fire.

**NFPA Ratings: Health: 2 Fire: 4 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.

### Clean-Up Procedures

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

### Evacuation Procedures

Keep unnecessary personnel away.

### Special Procedures

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not pierce or burn container, even after use. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Avoid prolonged or repeated skin contact. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid contact with oxidizing agents. Do not place fingertip over edge of spray nozzle. If cold or tingling is felt at the fingertip discontinue spraying.

### Storage Procedures

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container tightly closed. Store away from oxidizing agents.

# Material Safety Data Sheet

Material Name: 3M Silicone Lubricant

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### A: Component Exposure Limits

#### Cyclohexane (110-82-7)

ACGIH: 100 ppm TWA  
OSHA: 300 ppm TWA; 1050 mg/m3 TWA  
NIOSH: 300 ppm TWA; 1050 mg/m3 TWA

#### Propane (74-98-6)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)  
OSHA: 1000 ppm TWA; 1800 mg/m3 TWA  
NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA

#### Isobutane (75-28-5)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)  
NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

#### Hexane (110-54-3)

ACGIH: 50 ppm TWA  
Skin - potential significant contribution to overall exposure by the cutaneous route  
OSHA: 50 ppm TWA; 180 mg/m3 TWA  
NIOSH: 50 ppm TWA; 180 mg/m3 TWA

### Engineering Controls

local exhaust. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment. Do not use in a confined area or areas with little or no air movement. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Safety glasses with side shields

#### Personal Protective Equipment: Skin

Nitrile Rubber gloves. Wear insulated gloves to avoid frostbite.

#### Personal Protective Equipment: Respiratory

Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Transparent Aerosol	<b>Odor:</b>	Slight
<b>Physical State:</b>	Liquid	<b>pH:</b>	NA
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	2.97
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	NA
<b>Solubility (H2O):</b>	Nil	<b>Specific Gravity:</b>	0.640
<b>Evaporation Rate:</b>	1.9	<b>VOC:</b>	95%
<b>Percent Volatile:</b>	95	<b>Octanol/H2O Coeff.:</b>	ND
<b>Flash Point:</b>	-50.0 °C	<b>Flash Point Method:</b>	TCC
<b>Upper Flammability Limit (UFL):</b>	8	<b>Lower Flammability Limit (LFL):</b>	1.5
<b>Burning Rate:</b>	ND	<b>Auto Ignition:</b>	ND

# Material Safety Data Sheet

Material Name: 3M Silicone Lubricant

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Store away from heat

### Incompatibility

None.

### Hazardous Decomposition

May include and are not limited to: Oxides of carbon. Toxic vapors, gas and particulates.

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### Component Analysis - LD50/LC50

##### Cyclohexane (110-82-7)

Inhalation LC50 Rat: 13.9 mg/L/4H; Oral LD50 Rat:>5000 mg/kg; Dermal LD50 Rabbit:>2000 mg/kg

##### Propane (74-98-6)

Inhalation LC50 Rat: 658 mg/L/

##### Isobutane (75-28-5)

Inhalation LC50 Rat: 658 mg/L/4H

##### Dimethyl ether (115-10-6)

Inhalation LC50 Rat: 308.5 mg/L/4H

##### Hexane (110-54-3)

Inhalation LC50 Rat: 48000 ppm/4H; Oral LD50 Rat:25 g/kg; Dermal LD50 Rabbit:3000 mg/kg

### Carcinogenicity

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Cyclohexane (110-82-7)

###### Test & Species

96 Hr LC50 Pimephales promelas	4.53 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	34.72 mg/L
96 Hr LC50 Poecilia reticulata	48.0 mg/L
72 Hr EC50 Scenedesmus subspicatus	>500 mg/L
5 min EC50 Photobacterium phosphoreum	85.5 mg/L
10 min EC50 Photobacterium phosphoreum	93 mg/L
48 Hr EC50 water flea	400.0 mg/L

###### Conditions

# Material Safety Data Sheet

**Material Name: 3M Silicone Lubricant**

**Hexane (110-54-3)**

**Test & Species**

96 Hr LC50 Oncorhynchus mykiss	4.14 mg/L	<b>Conditions</b>
96 Hr LC50 Pimephales promelas	2.5 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	4.12 mg/L	
48 Hr EC50 water flea	3.87 mg/L	

**\*\*\* Section 13 - Disposal Considerations \*\*\***

**US EPA Waste Number & Descriptions**

**A: General Product Information**

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**B: Component Waste Numbers**

**Cyclohexane (110-82-7)**

RCRA: waste number U056 (Ignitable waste)

**Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**\*\*\* Section 14 - Transportation Information \*\*\***

**US DOT Information**

Shipping Name: Not Regulated

**\*\*\* Section 15 - Regulatory Information \*\*\***

**US Federal Regulations**

**Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

**Cyclohexane (110-82-7)**

SARA 313: 1.0 % de minimis concentration  
 CERCLA: 1000 lb final RQ; 454 kg final RQ

**Hexane (110-54-3)**

CERCLA: 5000 lb final RQ; 2270 kg final RQ

**State Regulations**

**Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	Yes	Yes
Isohexane	107-83-5	No	Yes	Yes	No	Yes	No
Propane	74-98-6	No	Yes	Yes	Yes	Yes	Yes
Isobutane	75-28-5	No	Yes	No	Yes	Yes	No
Dimethyl ether	115-10-6	No	Yes	Yes	Yes	Yes	Yes
3-Methylpentane	96-14-0	No	Yes	No	No	Yes	No
Neohexane	75-83-2	No	Yes	No	Yes	Yes	No
2,3-Dimethylbutane	79-29-8	No	Yes	No	Yes	Yes	No
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	Yes

# Material Safety Data Sheet

Material Name: 3M Silicone Lubricant

## Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Cyclohexane	110-82-7	1 %
Isohexane	107-83-5	1 %
Neohexane	75-83-2	1 %
2,3-Dimethylbutane	79-29-8	1 %

## Additional Regulatory Information

### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Cyclohexane	110-82-7	Yes	DSL	EINECS
Isohexane	107-83-5	Yes	DSL	EINECS
Propane	74-98-6	Yes	DSL	EINECS
Isobutane	75-28-5	Yes	DSL	EINECS
Dimethyl ether	115-10-6	Yes	DSL	EINECS
3-Methylpentane	96-14-0	Yes	DSL	EINECS
Neohexane	75-83-2	Yes	DSL	EINECS
2,3-Dimethylbutane	79-29-8	Yes	DSL	EINECS
Hexane	110-54-3	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

### Key/Legend

NA - Not Applicable  
ND - Not Determined  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value  
PEL - Permissible Exposure Limit  
TWA - Time Weighted Average  
STEL - Short Term Exposure Limit  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer