

Pyroil™ Multi-Purpose Silicone Lubricant  
SILICONE SPRAY  
PYSLS10

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

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)

Product name Pyroil™ Multi-Purpose Silicone Lubricant SILICONE SPRAY

Product code PYSLS10

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: aerosol, aerosol

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

##### **Skin contact**

May cause slight skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

##### **Ingestion**

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Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

### **Inhalation**

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:., Skin, lung (for example, asthma-like conditions), blood-forming system

### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:., stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, loss of appetite, Lack of coordination, irregular heartbeat, coma

### **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:., mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities

### **Carcinogenicity**

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

### **Reproductive hazard**

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

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### Other information

When heated to temperatures above 150 degrees C in the presence of air, this product can form formaldehyde vapors. Formaldehyde has been identified as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA). Formaldehyde is irritating to the eyes, nose, throat, and airways, and can cause an allergic reaction (causes narrowing of the air passages of the lungs, sweating, flushing, hives, rapid heart rate, and lowered blood pressure). In addition, formaldehyde can cause an allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). It is harmful if inhaled, swallowed or absorbed through skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	>=50-<60%
ACETONE	67-64-1	>=40-<50%
CARBON DIOXIDE	124-38-9	>=1.5-<5%
DIMETHYL SILICONES AND SILOXANES	63148-62-9	>=1.5-<5%

### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

#### Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

#### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison

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control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### Notes to physician

**Hazards:** Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

**Treatment:** No information available.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

### Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde, Hydrocarbons, organic compounds, silicon oxides

### Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### NFPA Flammable and Combustible Liquids Classification

not applicable

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

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For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

### Environmental precautions

Do not flush into surface water or sanitary sewer system.

### Methods for cleaning up

Remove all sources of ignition. Suppress (knock down) gases/vapours/mists with a water spray jet.

### Other information

Comply with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

### Storage

Store in a cool, dry, ventilated area. Maximum recommended storage temperature 50 degrees C (122 degrees F).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC		64742-89-8
OSHA Z1	time weighted average	500 ppm
ACGIH	time weighted average	300 ppm
OSHA Z1	time weighted average	2,000 mg/m3
ACGIH	time weighted average	1,370 mg/m3
ACETONE		67-64-1
ACGIH	time weighted average	500 ppm
ACGIH	Short term exposure limit	750 ppm
NIOSH	Recommended exposure limit (REL):	250 ppm

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NIOSH	Recommended exposure limit (REL):	590 mg/m3
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	2,400 mg/m3
ACGIH NIC	time weighted average	200 ppm
ACGIH NIC	Short term exposure limit	500 ppm
<b>CARBON DIOXIDE</b>		<b>124-38-9</b>
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure limit (REL):	5,000 ppm
NIOSH	Recommended exposure limit (REL):	9,000 mg/m3
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure limit	5,000 ppm
OSHA Z1	Permissible exposure limit	9,000 mg/m3

### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

### Skin and body protection

Wear resistant gloves such as:

Nitrile rubber

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Discard gloves that show tears, pinholes, or signs of wear.

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### Respiratory protection

Respiratory protection is not required under normal conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	aerosol
<b>Form</b>	aerosol
<b>Boiling point/boiling range</b>	133 °F / 56 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas, Value for Component
<b>Flash point</b>	-4 °F / -20 °C Calculated Flash Point, Value for Component
<b>Lower explosion limit/Upper explosion limit</b>	2.6 %(V) / 12.8 %(V) Calculated Explosive Limit
<b>Vapour pressure</b>	308.000 hPa @ 77 °F / 25 °C Calculated Vapor Pressure
<b>Density</b>	1.078 g/cm <sup>3</sup> @ 77 °F / 25 °C

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible products

Acids, alkalis, Amines, Ammonia, halogens, peroxides, Reducing agents, Strong oxidizing agents

### Hazardous decomposition products

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde, Hydrocarbons, organic compounds, silicon oxides

### Hazardous reactions

Product will not undergo hazardous polymerization.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute oral toxicity

Acute oral toxicity - Product : no data available

#### Acute oral toxicity - Components

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : LD 50: > 8,000 mg/kg Species: Rat

ACETONE : LD 50: 5,800 mg/kg Species: Rat

DIMETHYL SILICONES AND SILOXANES : LD 50: > 5 g/kg Species: Rat

#### Acute inhalation toxicity

Acute inhalation toxicity - Product : no data available

#### Acute inhalation toxicity - Components

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : LC 50: 3400 ppm Exposure time: 4 h Species: Rat

ACETONE : LC 50: > 16000 ppm Exposure time: 4 h Species: Rat

DIMETHYL SILICONES AND SILOXANES : LC 50: > 695 mg/m<sup>3</sup> Exposure time: 4 h Species: Rat  
Method: OECD Test Guideline 403

#### Acute dermal toxicity

Acute dermal toxicity - Product : no data available

#### Acute dermal toxicity - Components

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : LD 50: > 4,000 mg/kg Species: Rat

ACETONE : LD 50: > 20,000 mg/kg Species: Rabbit

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DIMETHYL SILICONES : LD 50: > 2,000 mg/kg Species: Rabbit  
AND SILOXANES

### Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

## 12. ECOLOGICAL INFORMATION

### Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

DIMETHYL SILICONES : Remarks: Not readily biodegradable.  
AND SILOXANES

### Bioaccumulation

Bioaccumulation - Product : no data available

### Ecotoxicity effects

#### Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

ACETONE : LC 50: 4,740 - 6,330 mg/l  
Exposure time: 96 h  
Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss)  
Test Type: static test

LC 50: 8,733 - 9,482 mg/l  
Exposure time: 96 h  
Species: Fathead minnow (Pimephales promelas)  
Test Type: flow-through test

### Toxicity to daphnia and other aquatic invertebrates

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Toxicity to daphnia and other aquatic invertebrates : no data available  
- Product

### Toxicity to algae

Toxicity to algae - Product : no data available

### Toxicity to bacteria

Toxicity to bacteria - Product : no data available

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

## 14. TRANSPORT INFORMATION

### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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#### U.S. DOT - ROAD

	ORM-D, CONSUMER COMMODITY	ORM			
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#### U.S. DOT - RAIL

	ORM-D, CONSUMER COMMODITY	ORM			
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#### U.S. DOT - INLAND WATERWAYS

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ORM-D, CONSUMER COMMODITY	ORM
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### TRANSPORT CANADA - ROAD

UN 1950 AEROSOLS	2.1	LIMITED QUANTITY
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### TRANSPORT CANADA - RAIL

UN 1950 AEROSOLS	2.1	LIMITED QUANTITY
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### TRANSPORT CANADA - INLAND WATERWAYS

UN 1950 AEROSOLS	2.1	LIMITED QUANTITY
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### INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1950 AEROSOLS	2.1	MARINE POLLUTANT: (ALIPHATIC PETROLEUM NAPHTHA)LI MITED QUANTITY
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### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1950 Aerosols, flammable	2.1
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### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1950 Aerosols, flammable	2.1
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### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1950 AEROSOLS	2
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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### 15. REGULATORY INFORMATION

#### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.	BENZENE
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	TOLUENE BENZENE

#### SARA Hazard Classification

#### SARA 311/312 Classification

Acute Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard

#### SARA 313 Component(s)

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### New Jersey RTK Label Information

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
ACETONE	67-64-1
CARBON DIOXIDE	124-38-9
DIMETHYL SILICONES AND SILOXANES	63148-62-9

#### Pennsylvania RTK Label Information

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
ACETONE	67-64-1
CARBON DIOXIDE	124-38-9

#### Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)

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Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

### Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	11944 lbs
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### Reportable quantity-Components

ACETONE	67-64-1	5000 lbs
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	HMIS	NFPA
Health	2	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

## 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).