

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**SilOil, M80.055.03**

Revision date: 02/26/2024

Page 1 of 10

**1. Identification****Product identifier**

SilOil, M80.055.03

Substance name: Polydimethylsiloxan  
CAS No: 63148-62-9

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Heat transfer oil / cold transfer oil

**Uses advised against**

Any non-intended use.

**Details of the supplier of the safety data sheet**

Company name: Huber USA Inc.  
Street: 1101 Nowell Rd Suite 110  
Place: USA-NC 27607 Raleigh  
Telephone: 800-726-4877  
E-mail: info@huber-online.com  
Internet: www.huber-usa.com

**Emergency phone number:** Toll Free: 1-800-424-9300; Local: +1-703-527-3887

**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 4

**Label elements****29 CFR Part 1910.1200**

**Signal word:** Warning

**Hazard statements**

Combustible liquid

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Store in a well-ventilated place.  
Dispose of contents/container to local/regional/national/international regulations.

**Hazards not otherwise classified**

Endocrine disrupting properties: Dodecamethylcyclohexasiloxane.

**3. Composition/information on ingredients****Substances****Chemical characterization**

Polydimethylsiloxane

**Relevant ingredients**

CAS No	Components	Quantity
63148-62-9	Polydimethylsiloxan	> 95 %

**4. First-aid measures**

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## SilOil, M80.055.03

Revision date: 02/26/2024

Page 2 of 10

### Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### **After contact with skin**

Gently wash with plenty of soap and water. Remove contaminated clothing immediately. In case of skin irritation consult a doctor.

#### **After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### **After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

### Most important symptoms and effects, both acute and delayed

See sections 2 and 11

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water. Sand

#### **Unsuitable extinguishing media**

High power water jet.

### Specific hazards arising from the chemical

Can be released in case of fire: Toxic gases/vapors

### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### **General advice**

See protective measures under point 7 and 8.

#### **For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

#### **For emergency responders**

No special measures are necessary.

### Environmental precautions

Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers).

### Methods and material for containment and cleaning up

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## SilOil, M80.055.03

Revision date: 02/26/2024

Page 3 of 10

### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

#### Advice on protection against fire and explosion

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Usual measures for fire prevention.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing.

#### Further information on handling

General protection and hygiene measures: See section 8. Vapors / aerosols must be extracted by suction immediately at point of origin.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Store only in original container.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Recommended storage temperature: 20 °C  
Maximum storage temperature: 50 °C  
Protect against: frost. UV-radiation/sunlight. heat. Humidity

## 8. Exposure controls/personal protection

### Control parameters

#### Additional advice on limit values

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**SilOil, M80.055.03**

Revision date: 02/26/2024

Page 4 of 10

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). Standards: EN ISO 16321-1 or 29 CFR 1910.133

**Hand protection**

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of the glove material 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of the glove material 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves should satisfy the specifications of standards like EN 374.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Lab apron.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-aerosol or mist formation

-Exceeding exposure limit values

Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140) Type A-P2

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

No special precautionary measures are necessary.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Color:	colourless
Odor:	odourless

**Test method**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 62 °C ISO 2592

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**SiOil, M80.055.03**

Revision date: 02/26/2024

Page 5 of 10

Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / kinematic: (at 25 °C)	ca. 3 mm <sup>2</sup> /s
Water solubility:	Immiscible
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	SECTION 12: Ecological information
Vapor pressure:	not determined
Density (at 25 °C):	ca. 0,9 g/cm <sup>3</sup>
Relative vapour density:	not determined

**Other information****Information with regard to physical hazard classes**

Explosive properties none	
Sustaining combustion:	Not sustaining combustion
Self-ignition temperature Gas:	not determined
Oxidizing properties none	

**Other safety characteristics**

Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

Stability: Stable

The product is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

No information available.

**Conditions to avoid**

Protect against: UV-radiation/sunlight. heat. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

**Incompatible materials**

Materials to avoid: Oxidizing agents, strong.

**Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>). Silicon dioxide (SiO<sub>2</sub>)  
Measurements have shown that at temperatures above approx. 150 °C a small amount of formaldehyde is split off by oxidative decomposition.

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## SilOil, M80.055.03

Revision date: 02/26/2024

Page 6 of 10

### 11. Toxicological information

#### Route(s) of Entry

Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Skin contact: May cause irritation. Eye contact: May cause irritation.

#### Information on toxicological effects

##### **Toxicokinetics, metabolism and distribution**

No data available.

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

##### **Sensitizing effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

##### **Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

##### **Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

##### **Specific effects in experiment on an animal**

No data available.

#### Information on other hazards

##### **Endocrine disrupting properties**

Endocrine disrupting properties: Dodecamethylcyclohexasiloxane.

### 12. Ecological information

#### Ecotoxicity

The product has not been tested.

#### Persistence and degradability

The product has not been tested.

#### Bioaccumulative potential

No indication of bioaccumulation potential.

#### Mobility in soil

No data available.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

#### Other adverse effects

No data available.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### SilOil, M80.055.03

Revision date: 02/26/2024

Page 7 of 10

#### Further information

Do not allow to enter into surface water or drains.

### 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.  
Non-contaminated packages may be recycled.

##### RCRA Hazardous wastes (Resource Conservation and Recovery Act)

None

##### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### U.S. DOT 49 CFR 172.101

##### Proper shipping name:

Not a hazardous material with respect to these transport regulations. &&  
Not controlled under DOT

#### Marine transport (IMDG)

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

See section 8.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

### 15. Regulatory information

#### U.S. Regulations

##### National Inventory TSCA

Polydimethylsiloxan, Dodecamethylcyclohexasiloxane listed in the TSCA inventory 8 (b): (x) active ,  
Polydimethylsiloxan, Dodecamethylcyclohexasiloxane not listed under TSCA 12(b)

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

This preparation is hazardous in the sense of regulation 29 CFR Part 1910.1200.

### 16. Other information

#### Hazardous Materials Identification System (HMIS)

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**SilOil, M80.055.03**

Revision date: 02/26/2024

Page 8 of 10

Health: 0  
Flammability: 2  
Physical Hazard: 0  
Personal Protection: B

**NFPA Hazard Ratings**

Health: 0  
Flammability: 2  
Reactivity: 0  
Unique Hazard: -

**Changes**

Revision date: 02/26/2024  
Revision No: 4,0  
Rev. 1,0; Initial release: 25.09.2020  
Rev. 2,0; 28.07.2022, Changes in section: 2-16  
Rev. 3,0; 21.07.2023, Revision  
Rev. 4,0; 26.02.2024, Revision; Changes in section: 2 - 16



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**SilOil, M80.055.03**

Revision date: 02/26/2024

Page 9 of 10

**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ASTM: American Society for Testing and Materials.  
 ATE: acute toxicity estimate  
 BCF: Bio concentration factor  
 ECHA: European Chemicals Agency  
 CAS: Chemical Abstracts Service  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 d: days  
 EC50: Half maximal effective concentration  
 EN: European Norm  
 EPA: Environmental Protection Agency  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 h: hours  
 HMIS: Hazardous Materials Identification System  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IBC: Intermediate Bulk Container  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 MARPOL: marine pollution  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NTP: National Toxicology Program  
 N/A: not applicable  
 NFPA: National Fire Protection Association  
 UN: United Nations  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent bioaccumulative toxic  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: short-term exposure limits  
 TSCA: Toxic Substances Control Act  
 TWA: time weighted average  
 VOC: Volatile Organic Compounds

**Other data**

Classification according 29 CFR Part 1910.1200: - Classification procedure:  
 Health hazards: Calculation method.  
 Environmental hazards: Calculation method.  
 Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### **SilOil, M80.055.03**

Revision date: 02/26/2024

Page 10 of 10

processing, the information on this safety data sheet is not necessarily valid for the new made-up material.