

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

**SilOil, M90.055/170.02**

Revision date: 07/28/2022

Product code:

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## 1. Identification

**Product identifier**

SilOil, M90.055/170.02

Substance name: Dodecamethylpentasiloxane  
CAS No: 141-63-9

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

Silicone polymer:  
surface treatment product, , Separating agent refrigerant 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**

This substance is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

**Label elements****Additional advice on labelling**

Label elements GHS: None

**Hazards not otherwise classified**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

## 3. Composition/information on ingredients

**Substances****Chemical characterization**

The product does not contain dangerous substances to be mentioned in Chapter 3.

**Hazardous components**

none (according to 29 CFR 1910.1200(g))

## 4. First-aid measures

**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.

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**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. 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**

No information available.

**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: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide (SiO<sub>2</sub>).

**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****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

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## 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. Do not eat, drink, smoke or sneeze at the workplace. 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.

#### **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

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.

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 166 or 29 CFR 1910.133

##### **Hand protection**

In case of prolonged or frequently repeated skin contact:

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

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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

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:

Exceeding exposure limit values

Suitable respiratory protective equipment: half-mask with filter EN 149 or 29 CFR 1910.134 .

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****Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not applicable
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	> 90 °C ISO 2592

**Explosive properties**

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not applicable

**Self-ignition temperature**

Gas:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 25 °C)	ca. 2 mm <sup>2</sup> /s
Flow time:	not determined

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Water solubility: < 0,001 g/L  
(at 20 °C)

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

SECTION 12: Ecological information

Vapor pressure:  
(at 20 °C)

not determined

Density (at 25 °C):

ca. 0,87 g/cm<sup>3</sup>

Relative vapour density:

not determined

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

Sustaining combustion:

Not sustaining combustion

Oxidizing properties  
none

**Other safety characteristics**

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Evaporation rate:

not determined

**Further Information****10. Stability and reactivity****Reactivity**

No hazardous reactions known.

**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

Refer to chapter 10.5.

**Conditions to avoid**

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: Oxidising agent, strong. Reducing agents, strong.

**Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide (CO), 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.

**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.

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**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.

The product has not been tested.

**Sensitizing effects**

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

The product has not been tested.

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

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

The product has not been tested.

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

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

The product has not been tested.

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

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

The product has not been tested.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

**Aspiration hazard**

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

The product has not been tested.

**Specific effects in experiment on an animal**

No data available.

**Information on other hazards****Endocrine disrupting properties**

No data available.

**12. Ecological information****Ecotoxicity**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

The product has not been tested.

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Effects in sewage plants

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

**Persistence and degradability**

The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Biological degradation:

Degradation rate (%): 0

Length of test: 28 d

Method: OECD 310

Evaluation: Not easily bio-degradable (according to OECD-criteria).

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**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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

**Other adverse effects**

No data available.

**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**

refer to chapter 6 - 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**

Dodecamethylpentasiloxane listed in the TSCA inventory 8 (b): (x) active,

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Dodecamethylpentasiloxane 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.

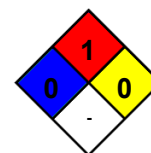
This mixture is classified as not hazardous according to Regulation 29 CFR Part 1910.1200.

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health:	0
Flammability:	1
Physical Hazard:	0
Personal Protection:	B

**NFPA Hazard Ratings**

Health:	0
Flammability:	1
Reactivity:	0
Unique Hazard:	-

**Changes**

Revision date:	28.07.2022
Revision No:	2,0
Rev. 1.0; Initial release:	25.09.2020
Rev. 2.0; 28.07.2022, Changes in chapter:	2-16

**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



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