according to 29 CFR 1910.1200(g)

SilOil, M60.115/200.05

Revision date: 07/21/2023

1. Identification

Product identifier

SilOil, M60.115/200.05

Substance name: CAS No:

Polydimethylsiloxan 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

Reproductive toxicity: Repr. 2

Label elements

Pictograms:

29 CFR Part 1910.1200

Signal word:

Warning



Hazard statements

Suspected of damaging fertility or the unborn child

Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to local/regional/national/international regulations.

Hazards not otherwise classified

Endocrine disrupting properties: Dodecamethylcyclohexasiloxane; octamethylcyclotetrasiloxane; [D4].

3. Composition/information on ingredients

<u>Substances</u>

Chemical characterization Polydimethylsiloxane Page 1 of 10

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Hazardous components

CAS No	Components	Quantity
63148-62-9	Polydimethylsiloxan	> 95 %
556-67-2	octamethylcyclotetrasiloxane; [D4]	0,1 - < 0,25 %

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.

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

Remove contact lenses, if present and easy to do. Continue rinsing. 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 drunken 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 (CO2). 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).

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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

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.

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 absorbtion 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

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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

Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of the glove material 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of the glove material 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material 0.5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of the glove material 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of the glove material 0,5 mm Breakthrough time >= 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. Breathing apparatus in the event of aerosol or mist formation. half-mask with filter EN 149 or 29 CFR 1910.134.

Environmental exposure controls

No special precautionary measures are necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

normation on basic physical and ci	nemical properties		
Physical state:	liquid		
Color:	colourless		
Odor:	weak		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling point a	and	not applicable	
boiling range:			
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Flash point:		> 120 °C	ISO 2592
Auto-ignition temperature:		350 °C	
Decomposition temperature:		not determined	

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pH-Value:	not applicable			
Viscosity / kinematic:	ca. 5 mm²/s			
(at 25 °C)	6d. 0 mm / 5			
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):	0,92 g/cm ³			
Relative vapour density:	not determined			
Other information				
Information with regard to physical	hazard classos			
Explosive properties				
none				
Sustaining combustion:	Not sustaining combustion			
Self-ignition temperature				
Gas:	not determined			
Oxidizing properties	het determined			
none				
Other safety characteristics				
Evaporation rate:	not determined			
-				
Solvent separation test: Solvent content:	not determined 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				
<u>Reactivity</u>				
No information available.				
Chemical stability				
Stability:	Stable			
•				
	inder recommended conditions of storage, use and temperature			
Possibility of hazardous reactions				
Hazardous reactions:	Will not occur			
No information available.				
Conditions to avoid				
	ight. heat. Keep away from heat/sparks/open flames/hot surface sures against static discharges.	es No		
Incompatible materials Materials to avoid: Oxidizing agen	ts, strong. Reducing agents, strong.			
Hazardous decomposition products				
Can be released in case of fire: Si	ilicon dioxide (SiO2)			
	It temperatures above approx. 150 °C a small amount of formald	lehyde is split		
11. Toxicological information				
Revision No: 3,0	USA - en	Print date: 09/05/2023		

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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

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met. Acute oral toxicity Parameter: LD50 Exposure route: dermal Species: Rat

Effective dose: > 5000 mg/kg By analogy.

Acute dermal toxicity Parameter: LD50 Exposure route: oral Species: Rat Effective dose: > 2000 mg/kg By analogy.

Acute inhalation toxicity The product has not been tested.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
556-67-2	octamethylcyclotetrasiloxane; [D4]				
	oral	LD50 > 4800 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 402

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

Suspected of damaging fertility or the unborn child (octamethylcyclotetrasiloxane; [D4]) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Octamethylcyclotetrasiloxane In-vitro mutagenicity: Method: -OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) -OECD Guideline 471 (Bacterial Reverse Mutation Assay) -OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) Result: negative. Literature information: REACH Dossier

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.

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Octamethylcyclotetrasiloxane Chronic inhalative toxicity: Method: other guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) Exposure time: 2 years Species: Rat Results: NOAEC = 150 ppm. Literature information: REACH Dossier

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; octamethylcyclotetrasiloxane; [D4].

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.

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

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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.	
<u>Transport hazard class(es):</u>	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		
5	tetrasiloxane Dodecamethylcyclohexasiloxane listed in the TSCA	
inventory 8 (b): (x) active ,		
• • • • • • •	tetrasiloxane Dodecamethylcyclohexasiloxane not listed under TSCA	
12(b)		
National regulatory information		

National regulatory information

SARA Section 311/312 Hazards: octamethylcyclotetrasiloxane; [D4] (556-67-2): Fire hazard

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)			
Health:	3		
Flammability:	1		
Physical Hazard:	0		
Personal Protection:	В		
NFPA Hazard Ratings			
Health:	3		
Flammability:	1		
Reactivity:	0		
Unique Hazard:	-		
Changes			



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Revision No:	3,0	
Rev. 1,0; Initial release: 25.		
Rev. 2.0; 28.07.2022, Chang		
Rev. 3,0; 21.07.2023, Revis		
Abbreviations and acronyms		
-	e of Governmental Industrial Hygienists	
ASTM: American Society for		
ATE: acute toxicity estimate	rooting and materiale.	
BCF: Bio concentration facto	r	
ECHA: European Chemicals	Agency	
CAS: Chemical Abstracts Se	rvice	
CFR: Code of Federal Regu	ations	
DOT: Department of Transp	ortation	
d: days		
EC50: Half maximal effective	e concentration	
EN: European Norm		
EPA: Environmental Protect		
	System of Classification and Labelling of Chemicals	
h: hours HMIS: Hazardous Materials	Identification System	
	ENCY FOR RESEARCH ON CANCER	
IBC: Intermediate Bulk Cont		
	Code for Dangerous Goods	
IATA: International Air Trans	-	
	ds Regulations by the "International Air Transport Associa	ition" (IATA)
ICAO: International Civil Avia	ation Organization	
	ons by the "International Civil Aviation Organization" (ICA	D)
	System of Classification and Labelling of Chemicals	
LOAEL: Lowest observed ac		
LOAEC: Lowest observed a		
LC50: Lethal concentration,	•	
LD50: Lethal dose, 50 perce MARPOL: marine pollution	11	
NOAEL: No observed adver	se effect level	
NOAEC: No observed adver		
NTP: National Toxicology Pr		
N/A: not applicable	5	
NFPA: National Fire Protect	on Association	
UN: United Nations		
-	nomic Co-operation and Development	
OSHA: Occupational Safety		
PBT: Persistent bioaccumula		
	fects of Chemical Substances	
u	ation, Authorisation and Restriction of Chemicals	
SARA: Superfund Amendme		
STEL: short-term exposure I TSCA: Toxic Substances Co		
TWA: time weighted average		
VOC: Volatile Organic Comp		
	Guildo	
Other data	ER Part 1010 1200 Classification procedures	
Health hazards: Calculation	CFR Part 1910.1200: - Classification procedure:	
Environmental hazards: Calculation		

Environmental hazards: Calculation method.

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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.