



SILICONI COMMERCIALE SPA

Via Francia 4 Z.I. – 36053 GAMBELLARA (VI) ITALY
Tel +39 0444 649766 Fax +39 0444 440018 www.siliconi.it

Safety Data Sheet FLUID MS - Silicone Oil

Safety Data Sheet dated 30/11/2022, version 5.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:
Trade name: FLUID MS - Silicone Oil
Trade code: 55250/50

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:
Silicone oil, lubricating slipping release agent
Uses advised against:
Relevant uses are listed above. No other uses are recommended.

1.3. Details of the supplier of the safety data sheet

Company:
SILICONI COMMERCIALE SPA - Via Francia 4 Z.I. 36053 Gambellara (VI) ITALY Phone No.: +39 0444 649766
SILICONI COMMERCIALE SPA - ph n. +39 0444 649766 From Monday to Friday from 8 a.m. to 5 p.m.
Competent person responsible for the safety data sheet:
lab@siliconi.it

1.4. Emergency telephone number

SILICONI COMMERCIALE SPA - ph n. +39 0444 649766 From Monday to Friday from 8 a.m. to 5 p.m.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:
None
Hazard statements:
None
Precautionary statements:
None
Special Provisions:
None
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

Chemical description: Polydimethylsiloxane CAS: 63148-62-9

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:
N.A.
For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Wash with plenty of water and soap. Consult a doctor if symptoms occur.
In case of eyes contact:
Rinse immediately with plenty of water for at least 10 minutes and seek medical advice.
In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In case of Inhalation:



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Safety Data Sheet

FLUID MS - Silicone Oil

Remove casualty to fresh air and keep warm and at rest. Consult a doctor in case of difficult breathing.

4.2. Most important symptoms and effects, both acute and delayed

For symptoms and effects due to the contained substances, see Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Powder fire extinguisher, carbon dioxide (CO₂), water or chemical foam.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Wear full fire protection equipment (Type EN 11611 or EN469) with self-contained breathing apparatus (Type EN 137), visor helmet and neck protection (Type EN443), anti-heat gloves (Type EN407). Collect contaminated fire-extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Cool with nebulized water the containers invested by the fire to avoid overheating. Do not let the extinguishing media penetrate the sewers or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Indicate the danger of slipping clearly. Remove persons to safety. See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment (See Section 8).

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

In case of leakage of large quantities of product mechanically stem and withdraw them by transferring the product into suitable containers. Recover if possible. Suitable material for picking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers upright avoiding the possibility of falls or collisions. Keep the product into original containers and tightly closed. Store and transport at room temperature between min. +5 °C and max. +35 °C. Keep in fresh and dry place. Keep away from food, drink and feed.

Incompatible materials:

See section number 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values



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Safety Data Sheet FLUID MS - Silicone Oil

N.A.

8.2. Exposure controls

Appropriate engineering controls:

None

Eye protection:

Wear goggles with lateral protection type EN166.

Protection for skin:

It is not necessary in case of brief contact except for wearing antistatic clean and covering garments. In case of long and frequent contact use protective and waterproof garments to this material. Choosing specific protection as peak, gloves, boots, overalls depends on the type of operations (Type EN 340-EN13034).

Protection for hands:

During manipulation is necessary protect hands with chemical resistant gloves Type EN374 (PVC, PE, neoprene, Nitrile, Viton, not natural Rubber). It is recommended to use gloves with Protective Index 6: permeation time >480min, Thickness >0,3mm. Change gloves in case of wear, cracks or internal contamination.

Respiratory protection:

Not necessary for normal use. In case of vapor/aerosol formation use respirator type EN149 with FFP2 filter.

Thermal Hazards:

None

Environmental exposure controls:

Avoid fog or aerosol formations. Do not eat or drink while using the product. Observe the general hygiene measures for the use of chemicals.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Notes: |
|---|---|--------|
| Physical state: | Liquid | -- |
| Colour: | colourless | -- |
| Odour: | odorless | -- |
| Melting point/freezing point: | - 50 °C | -- |
| Boiling point or initial boiling point and boiling range: | > 300 °C | -- |
| Flammability: | N.A. | -- |
| Lower and upper explosion limit: | N.A. | -- |
| Flash point: | N.A. | -- |
| Auto-ignition temperature: | > 400 °C | -- |
| Decomposition temperature: | N.A. | -- |
| pH: | N.A. | -- |
| Viscosity: | 50 - 5.000 cSt Variable by type | -- |
| Solubility in water: | insoluble | -- |
| Solubility in oil: | Soluble in the main aliphatic, aromatic, chlorinated solvents | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- |
| Vapour pressure: | < 0,01 kPa (20°C) | -- |
| Density and/or relative density: | 0.98 g/cm ³ (25 °C) | -- |
| Relative vapour density: | N.A. | -- |
| Particle characteristics: | | |
| Particle size: | N.A. | -- |

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Avoid exposure to sunlight. Avoid overheating.



Safety Data Sheet

FLUID MS - Silicone Oil

10.5. Incompatible materials

Kepp away from oxidizing agents.

10.6. Hazardous decomposition products

It does not decompose under normal conditions. In case of thermal decomposition may form vapors potentially dangerous to health.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

At the state of our current knowledge is physiologically tolerable. At the state of our current knowledge it is neither mutagenic nor carcinogenic nor teratogenic.

Toxicological information of the substance:

FLUID MS - Silicone Oil

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Polydimethylsiloxane - CAS: 63148-62-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2008 mg/kg

b) skin corrosion/irritation:

Species: Rabbit No Irritant

c) serious eye damage/irritation:

Species: Rabbit No Irritant - Source: OECD 406

d) respiratory or skin sensitisation:

Test: Magnusson-Kligman - Route: Skin - Species: Cavy Not sensitising - Source: OECD 406

e) germ cell mutagenicity:

Test: Mutation assay (in vitro) - Species: Bacterial cells Negative - Source: OECD 471

f) carcinogenicity:

Test: NOAEL - Route: Oral - Species: Rat >= 1000 mg/kg

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rabbit >= 1000 mg/kg

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat >= 1000 mg/kg



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Safety Data Sheet

FLUID MS - Silicone Oil

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. No ecotoxic substances.

WGK (Wasser-Gefährdender): Class 1

FLUID MS - Silicone Oil

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Polydimethylsiloxane - CAS: 63148-62-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna > 0.0001 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae (skeletonema costatum) > 100.000 mg/l - Duration h: 72

Endpoint: NOEC - Species: Fish (Oncorhynchus mykiss) > 10.000 mg/kg - Notes: 28d

Endpoint: NOEC - Species: Daphnia magna > 500 mg/kg - Notes: 21d

12.2. Persistence and degradability

Non biodegradable. Polydimethylsiloxane are in certain amount biodegradable through abiotic physico-chemical processes. >90% of the product is eliminated by adsorption on active sludge during waste water treatment.

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Air: the product doesn't contaminate air. Water: low solubility in water: it forms a thin greasy layer on water surface, and it is adsorbed by floating particles. Separation by sedimentation. Soil: the products binds to sediments when drained in surface water.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration \geq 0.1%

12.7. Other adverse effects

On the basis of the actual knowledge, no adverse effects on sewage plants are expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of product residual according local/national regulations.

Recover if possible. In doing so, comply with the local and national regulations currently in force.

Empty containers: remove any residual product. Dispose of containers according regulation.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)



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Safety Data Sheet FLUID MS - Silicone Oil

Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

15.3. Indications on the state of international registration

The components of this product are listed and / or exempt or notified:

AICS = Australian Inventory of Chemical Substances
DSL = Canadian Domestic Substances List
ECL = Korean Existing Chemical List
ENCS = Japanese Existing and New Chemicals Substances List
IECS = Inventory of Existing Chemicals Substances in China
NZIoC = New Zealand Inventory of Chemicals
PICCS = Philippine Inventory of Chemicals and Chemical Substances
TSCA = USA Toxic Substances Control Act
EC inventories = European Community inventories of chemicals (EINECS/ELINCS/NLP/REACH)

SECTION 16: Other information

Modified Paragraphs compared to the previous revision: SECTION: 1, 9, 11,12, 15, 16.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.



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| | |
|-------------|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| N.A.: | Not available |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |