



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 GREASIL MS12



Safety Data Sheet dated 15/9/2022, version 5.0

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

1.1. Product identifier

Mixture identification:
Trade name: GREASIL MS12
Trade code: 30470/01
UFI: AUU6-2V8D-D006-JGKP

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

Recommended use:

Dielectric silicone paste, lubricant.

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)



Warning, Aquatic Acute 1, Very toxic to aquatic life.



Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with regulation.

Special Provisions:

The manufacturer cannot be held responsible in case of damages caused by incorrect use of the product.

Special provisions according to Annex XVII of REACH and subsequent amendments:

For professional users only.

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

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:



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Qty	Name	Ident. Number	Classification
>= 60% - < 70%	zinc oxide	Index number: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 REACH No.: 01-2119463881-32	4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1.

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:

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide (CO₂), water, chemical foam, chemical powder.

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). Cool with nebulized water the containers involved by the fire to avoid overheating. Do not let the extinguishing media penetrate the sewers or waterways. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Fire extinguishing water must not be discharged into drains.

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



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Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. 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 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

zinc oxide - CAS: 1314-13-2

TLV-ACGIH - TWA(8h): 2 mg/m³ - STEL(15min): 10 mg/m³ - Notes: Respirable fraction

ACGIH - TWA(8h): 2 mg/m³ - STEL(15min): 10 mg/m³ - Notes: (R) - Metal fume fever

DNEL Exposure Limit Values

zinc oxide - CAS: 1314-13-2

Worker Industry: 5 mg/m³ - Consumer: 2.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.83 mg/Kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 83 mg/Kg bw/day - Consumer: 83 mg/Kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

zinc oxide - CAS: 1314-13-2

Target: Fresh Water - Value: 20.6 µg/l

Target: Marine water - Value: 6.1 µg/l

Target: Freshwater sediments - Value: 117.8 mg/l

Target: Marine water sediments - Value: 56.5 mg/kg

Target: Soil (agricultural) - Value: 35.6 mg/kg

Target: Microorganisms in sewage treatments - Value: 0.0001 mg/l

8.2. Exposure controls

Appropriate engineering controls:

None

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

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 normal manipulation it is not necessary a particular protection. In case of frequent contacts protect hands with gloves resistant to chemical products Type EN 374 (PVC, PE, neoprene, not natural rubber).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Notes:
Physical state:	White	--
Colour:	Grease	--
Odour:	odorless	--
Melting point/freezing point:	N.A.	--



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Boiling point or initial boiling point and boiling range:	N.A.	--
Flammability:	N.A.	--
Lower and upper explosion limit:	N.A.	--
Flash point:	N.A.	--
Auto-ignition temperature:	N.A.	--
Decomposition temperature:	N.A.	--
pH:	N.A.	--
Kinematic viscosity:	N.A.	--
Solubility in water:	N.A.	--
Solubility in oil:	N.A.	--
Partition coefficient n-octanol/water (log value):	N.A.	--
Vapour pressure:	< 0,01kPa (20°C)	--
Density and/or relative density:	2,2 g/cm3 (25°C)	--
Relative vapour density:	N.A.	--

Particle characteristics:

Particle size:	N.A.	--
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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.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

It does not decompose under normal conditions. In case of thermal decomposition can form potentially harmful vapors for the health.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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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



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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:

zinc oxide - CAS: 1314-13-2

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Inhalation - Species: Rat > 5700 mg/m3

i) STOT-repeated exposure:

Test: NOAEL - Route: Inhalation - Species: Rat 1.5 mg/m3

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.

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The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

zinc oxide - CAS: 1314-13-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Lepomis macrochirus 320 mg/l - Duration h: 96

Endpoint: LC50 - Species: O4 330-780 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna 1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia magna 6.9-16.2 mg/l - Duration h: 48

Endpoint: LC50 - Species: Algae 0.17 mg/l - Duration h: 72

Endpoint: NOEC - Species: Algae (Pseudokirchneriella subcapitata) 0.017 mg/l - Duration h: 72

Endpoint: LC50 - Species: Selenastrum capricornutum 136 ul/l - Duration h: 72

Endpoint: NOEC - Species: Selenastrum capricornutum 24 ul/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: O4 199 ul/l - Notes: 30 day

Endpoint: NOEC - Species: Daphnia magna 37 ul/l - Notes: 21 day

c) Bacteria toxicity:

Endpoint: CL50 5.2 mg/l - Duration h: 3

12.2. Persistence and degradability

zinc oxide - CAS: 1314-13-2

Biodegradability: Non biodegradable

12.3. Bioaccumulative potential

zinc oxide - CAS: 1314-13-2

Test: BCF - Bioconcentration factor 177 - Notes: Pesci

12.4. Mobility in soil

N.A.

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

None

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 product residual. Dispose of containers according regulation.



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SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

ADR-UN number: 3077

IATA-Un number: 3077

IMDG-Un number: 3077

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 9

ADR-Label: 9 + Peric. Ambiente

IATA-Class: 9

IATA-Label: 9

IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: Marine pollutant

IMDG-EMS: F-A

IMDG-MFAG: S-F

14.6. Special precautions for user

ADR-Transport category (Tunnel restriction code): (E)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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)

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:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).



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Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E1

15.2. Chemical safety assessment

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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Modified Paragraphs compared to the previous revision: SECTION: 1, 2, 3, 8, 9, 11, 12, 14, 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.

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.



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TWA:	Time-weighted average
WGK:	German Water Hazard Class.