

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 1 Jul 2025

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

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

Impregnation agent

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

OBTEGO AG

Landshuter Straße 36

84051 Essenbach/Altheim

Germany

Telephone: +49 8703/93844-0

Telefax: +49 8703/93844-29

E-mail: sdb@obtego.com

Website: www.obtego.com

E-mail (competent person): sdb@obtego.com

1.4. Emergency telephone number

24h: +49(0)89-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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Supplemental hazard information: none

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
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Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1312-76-1 EC No.: 215-199-1 REACH No.: 01-2119456888-17-0002	Silicic acid, potassium salt Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) ⚠ Warning Specific concentration limit (SCL) STOT SE 3; H335: C ≥ 75% Eye Irrit. 2; H319: C ≥ 40% Skin Irrit. 2; H315: C ≥ 40%	15 - < 20 weight-%
CAS No.: 31795-24-1 EC No.: 250-807-9	potassium methylsilanetriolate Skin Corr. 1A (H314) ⚠ Danger	1 - < 3 weight-%
CAS No.: 7631-86-9 EC No.: 231-545-4	silicon dioxide The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	0 - < 1.5 weight-%
CAS No.: 1310-66-3	Lithiumhydroxid, Monohydrat Acute Tox. 4 (H302), Skin Corr. 1A (H314) ⚠ Danger	0 - < 0.5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Water (with cleaning agent)

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

The floor should be leak tight, jointless and not absorbent.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Protect containers against damage.

7.3. Specific end use(s)

Industrial sector specific solutions:

Covering agents, water based, alkaline

GISCODE:

BSW40

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE) from 1 Jul 2024	silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	① 0.02 mg/m ³ ② 0.16 mg/m ³ ⑤ (alveolengängige Fraktion)
TRGS 900 (DE)	silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	① 4 mg/m ³ ⑤ (einatembare Fraktion) DFG, 2, Y
TRGS 900 (DE) from 17 Jun 2024	silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	① 1 mg/m ³ ② 8 mg/m ³ ⑤ (einatembare Fraktion) AGS, 2, Y
DFG (DE) from 1 Jul 2022	silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	① 0.02 mg/m ³ ② 1.6 mg/m ³ ⑤ (alveolengängige Fraktion)
TRGS 900 (DE) from 2 Mar 2015	Lithiumhydroxid, Monohydrat CAS No.: 1310-66-3	① 0.2 mg/m ³ ② 0.2 mg/m ³ ⑤ (einatembare Fraktion) Y, 10, DFG

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	1.38 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	5.61 mg/kg bw/day	① DNEL worker ② Long-term - inhalation, local effects
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	0.74 mg/m ³	① DNEL Consumer ② Long-term - dermal, systemic effects
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	1.49 mg/kg bw/day	① DNEL worker ② Long-term - dermal, local effects
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1	7.5 mg/L	① PNEC aquatic, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Suitable material: Breakthrough time: min

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. EN 136 Respiratory protection necessary at: aerosol or mist formation Filtering device (full mask or mouthpiece) with filter:P-2

Other protection measures:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	≈ 10.9 - 11.9	20 °C	
Melting point	No data available		
Freezing point	No data available		

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Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	No data available		
Flash point	not applicable		
Evaporation rate	No data available		
Auto-ignition temperature	not applicable		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.12 g/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	completely miscible	20 °C	
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn. No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4. Conditions to avoid

See section 7. No additional measures necessary.

10.5. Incompatible materials

Materials to avoid Acids Light metal Formation of: Hydrogen

10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

Further information

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1
LD₅₀ oral: >2,000 mg/kg (Ratte)
LD₅₀ dermal: >5,000 mg/kg (Ratte) EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC₅₀ Acute inhalation toxicity (vapour): >206 mg/L 4 h EPA OPPTS 870.1300 (Acute inhalation toxicity)
Lithiumhydroxid, Monohydrat CAS No.: 1310-66-3
LD₅₀ oral: 210 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (rat)
LC₅₀ Acute inhalation toxicity (dust/mist): >3.4 mg/L 4 h (rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

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Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1

EC₅₀: >146 mg/L 2 d (fish, *Leuciscus idus*) DIN 38412 Teil 15 German std. method OECD 203

EC₅₀: >207 mg/L 3 d (Algae/water plant, *Desmodesmus subspicatus* (*Scenedesmus subspicatus*)) DIN 38412 Teil 9 German Natinal Guideline, the method conforms with OECD 201

12.2. Persistence and degradability

Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1

Biodegradation: —

potassium methylsilanetriolate CAS No.: 31795-24-1 EC No.: 250-807-9

Biodegradation: —

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Silicic acid, potassium salt CAS No.: 1312-76-1 EC No.: 215-199-1

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

potassium methylsilanetriolate CAS No.: 31795-24-1 EC No.: 250-807-9

Results of PBT and vPvB assessment: —

silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4

Results of PBT and vPvB assessment: —

Lithiumhydroxid, Monohydrat CAS No.: 1310-66-3

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

The substance is identified as having no endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

06 02 05 *	other bases
------------	-------------

*: Evidence for disposal must be provided.

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
------------	--------------------------------------------------------------------------

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

This product is not assigned to a hazard category.

2008/98/EC 2001/118/EC 1999/13/EC 2004/42/EC (EC) No. 1907/2006 (EU) 2015/830 75/324/EEC

2008/47/EC (EC) No. 1272/2008 2008/68/EC (EC) No. 648/2004

Information on Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Directive): VOC value: 0 g/L

VOC EU Limit (2004/42/EG) (cat. IIA/h): 30 g/L, VOC value 0 g/L

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

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15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - slightly hazardous to water

Technische Regeln für Gefahrstoffe

TRGS 200, TRGS 401, TRGS 510, TRGS 900, TRGS 905

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) BGI 595, BGI 564

Other regulations, restrictions and prohibition regulations

Hazardous Substances Ordinance (GefStoffV) Wasserhaushaltsgesetz (WHG)

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

www.euphrac.eu

16.3. Key literature references and sources for data

Substance name	Type	source of supply
potassium methylsilanetriolate CAS No.: 31795-24-1 EC No.: 250-807-9	Classification of the substance or mixture	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.6. Training advice

No data available

16.7. Additional information

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

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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.