

# SAFETY DATA SHEET

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

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## OBTEGO C-205

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

#### 1.1. Product identifier

Trade name/designation:

**OBTEGO C-205**

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

Use of the substance/mixture:

Maintenance liquid

#### 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 Altheim

Germany

**Telephone:** +49(0)8703/93844-0

**Telefax:** +49(0)8703/93844-29

**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 components for labelling:**

lithium hydroxide; potassium methylsilanetriolate

#### hazard statements for health hazards

H315	Causes skin irritation.
H319	Causes serious eye irritation.

**Supplemental hazard information: -**

#### Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

#### Precautionary Statements Prevention

P280	Wear protective gloves and eye/face protection.
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innovative surface protection

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### Precautionary Statements Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.

### 2.3. Other hazards

No data available



## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Additional information:

Labelling for contents according to regulation (EC) No. 648/2004:  
< 5% non-ionic surfactants, dye

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 1310-65-2 <b>EC No.:</b> 215-183-4 <b>REACH No.:</b> 01-2119560576-31-XXXX	<b>lithium hydroxide</b> Acute Tox. 4, Skin Corr. 1B   <b>Danger</b> H302-H314	< 10 weight-%
<b>CAS No.:</b> 31795-24-1 <b>EC No.:</b> 250-807-9 <b>REACH No.:</b> 01-2119517439-34-0000	<b>potassium methylsilanetriolate</b> Eye Dam. 1, Skin Corr. 1A  <b>Danger</b> H314-H318	< 3 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 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:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth. Let 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.

### 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.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

The product itself does not burn. 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

Pyrolysis products, toxic The product itself does not burn.

**Hazardous combustion products:**

Nitrogen oxides (NOx), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide 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.

Dispose of waste according to applicable legislation.

### 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. Special danger of slipping by leaking/spilling product. Provide adequate ventilation.

**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

Prevent spread over a wide area (e.g. by containment or oil barriers). 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:**

Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Water (with cleaning agent)

**Other information:**

Treat the recovered material as prescribed in the section on waste disposal.

#### 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). Provide adequate ventilation.

**Fire prevent measures:**

Usual measures for fire prevention. No special measures are necessary.

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### Measures to prevent aerosol and dust generation:

Use only in well-ventilated areas.

### Environmental precautions:

Do not allow to enter into surface water or drains.

### Advices on general occupational hygiene

Wash hands before breaks and after work. Use protective skin cream before handling the product. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 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:** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Protect containers against damage. Keep away from heat.

### 7.3. Specific end use(s)

#### Recommendation:

Observe technical data sheet.

## 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
TRGS 900 (DE)	Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3	① 1,000 mg/m <sup>3</sup> ② 8,000 mg/m <sup>3</sup>
DFG (DE)	Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3	① 250 mg/m <sup>3</sup> ② 500 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
potassium methylsilanetriolate CAS No.: 31795-24-1	47 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
potassium methylsilanetriolate CAS No.: 31795-24-1	10 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
potassium methylsilanetriolate CAS No.: 31795-24-1	47 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, systemic, (acute)
potassium methylsilanetriolate CAS No.: 31795-24-1	10 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, short-term, systemic, (acute)

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Substance name	DNEL value	① DNEL type ② Exposure route
potassium methylsilanetriolate CAS No.: 31795-24-1	6.6 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
potassium methylsilanetriolate CAS No.: 31795-24-1	4 mg/kg bw/ day	① DNEL Consumer ② dermal, long-term, systemic
potassium methylsilanetriolate CAS No.: 31795-24-1	6.6 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
potassium methylsilanetriolate CAS No.: 31795-24-1	4 mg/kg bw/ day	① DNEL Consumer ② Acute - dermal, systemic effects
potassium methylsilanetriolate CAS No.: 31795-24-1	0.42 mg/kg bw/day	① DNEL Consumer ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
potassium methylsilanetriolate CAS No.: 31795-24-1	4.2 mg/l	① PNEC aquatic, freshwater
potassium methylsilanetriolate CAS No.: 31795-24-1	0.42 mg/l	① PNEC aquatic, marine water
potassium methylsilanetriolate CAS No.: 31795-24-1	10 mg/l	① PNEC sewage treatment plant
potassium methylsilanetriolate CAS No.: 31795-24-1	3.3 mg/kg	① PNEC sediment, freshwater
potassium methylsilanetriolate CAS No.: 31795-24-1	0.33 mg/kg	① PNEC sediment, marine water
potassium methylsilanetriolate CAS No.: 31795-24-1	3.3 mg/kg	① PNEC secondary poisoning

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Technical measures to prevent exposure

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection DIN EN 166

#### Skin protection:

Tested protective gloves must be worn EN ISO 374. Suitable material: Butyl caoutchouc (butyl rubber), Breakthrough time (maximum wearing time) > 120 min. 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.

#### Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: aerosol or mist formation. Filtering device (full mask or mouthpiece) with filter: P2

#### Other protection measures:

Do not breathe vapour/aerosol. Avoid contact with eyes and skin. Wear suitable protective clothing and gloves.

### 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: yellow

Odour: not determined

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### Safety relevant basis data

parameter		at °C	Method	Remark
pH	≈ 11	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 100 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.07 g/cm <sup>3</sup>	20 °C	DIN EN ISO 2811, Teil 2	
Bulk density	<i>not determined</i>			
Water solubility	completely miscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 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: Acid, Light metals (Formation of: Hydrogen)

### 10.6. Hazardous decomposition products

No known hazardous decomposition products. In case of fire: Gases/vapours, toxic

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
31795-24-1	potassium methylsilanetriolate	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)

#### Acute oral toxicity:

not determined

#### Acute dermal toxicity:

not determined

#### Acute inhalation toxicity:

not determined

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### Skin corrosion/irritation:

Causes skin irritation.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

not determined

### Germ cell mutagenicity:

not determined

### Carcinogenicity:

not determined

### Reproductive toxicity:

not determined

### STOT-single exposure:

not determined

### STOT-repeated exposure:

not determined

### Aspiration hazard:

not determined

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
31795-24-1	potassium methylsilanetriolate	<b>LC<sub>50</sub>:</b> >500 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 <b>EC<sub>50</sub>:</b> >100 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub>:</b> >120 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
31795-24-1	potassium methylsilanetriolate	Yes, slowly	

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
31795-24-1	potassium methylsilanetriolate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

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### 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:

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

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
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.
<b>14.2. UN proper shipping name</b>			
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.
<b>14.3. Transport hazard class(es)</b>			
not relevant			
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
not relevant			

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable

## 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):

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-RL): VOC (in g / L): 0



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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 juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### Störfallverordnung

###### Remark:

Not subject to StörfallVO.

##### Technische Anleitung Luft (TA-Luft)

###### Remark:

Total dust emission value may not be exceeded. (see No. 5.2.1).

##### Water hazard class (WGK)

###### WGK:

1 - schwach wassergefährdend

###### Description:

Classification according to VwVwS, Annex 3.

##### Technische Regeln für Gefahrstoffe

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

##### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI): BGI 595, BGI 564

##### Other regulations, restrictions and prohibition regulations

Gefahrstoffverordnung (GefStoffV), Wasserhaushaltsgesetz (WHG), Wasch- und Reinigungsmittelgesetz (WRMG)

### 15.2. Chemical Safety Assessment

not applicable

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

### 16.3. Key literature references and sources for data

No data available

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

#### 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.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### 16.6. Training advice

No data available

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### 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 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.