OBTEGO Concrete Coat Si

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

1.1. Product identifier
Trade name/designation:

OBTEGO Concrete Coat Si

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
Floor Protection

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
Email: sdb@obtego.com
Website: www.obtego.com

Email (competent person): sdb@obtego.com

1.4. Emergency telephone number
Giftnotruf, München, 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]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard components for labelling:
N-(3-(trimethoxysilyl)propyl)ethylenediamine; Trimethoxyphenylsilane
Hazard statements: none

Supplemental hazard information	
EUH208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements Prevention	
P262	Do not get in eyes, on skin, or on clothing.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

2.3. Other hazards
Adverse human health effects and symptoms:
The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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.: 2996-92-1 EC No.: 221-066-9	**Trimethoxyphenylsilane** Acute Tox. 4 (H302), STOT RE 2 (H373)  Warning **Acute Toxicity Estimate** ATE (oral) 1,049 mg/kg ATE (dermal) 3,014 mg/kg	1 – < 2 weight-%
CAS No.: 1760-24-3 EC No.: 217-164-6	**N-(3-(trimethoxysilyl)propyl)ethylenediamine** Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Sens. 1B (H317)  Danger	0 – < 1 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:
Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. 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.

Following inhalation:
Provide fresh air.

In case of skin contact:
After contact with skin, first remove product with a dry cloth and then wash the skin with plenty of water.Change contaminated, saturated clothing.

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. In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

Following ingestion:
Call a physician immediately. Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.

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:
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
In the event of fire, hazardous combustion gases or vapours may be produced. Exposure to combustion products can be a health hazard! Hazardous fire products: toxic and very toxic fumes.

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. Remove all sources of ignition. Avoid breathing dust/fume/gas/mist/vapours/spray.

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). The contaminated area should be cleaned up immediately with: Solvent Ethanol, Acetone. Solvents/Thinner

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. Vapours can form explosive mixtures with air.

Fire prevent measures:

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

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, smoke, sniff. Avoid contact with skin, eyes and clothes.

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, Oxidising agent

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. Keep away from heat.

7.3. Specific end use(s)

Industrial sector specific solutions:
SMP-based coating materials

GISCODE:
RSP20

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)	**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (270 mg/m³) ② 50 ppm (270 mg/m³) ⑤ DFG, EU, Y
IOELV (EU)	**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m³) ② 100 ppm (550 mg/m³) ⑤ (may be absorbed through the skin)

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 ③ Exposure time
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	10.2 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects ③ 8 h
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	2.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects ③ 8 h
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	3.54 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects ③ 8 h
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	1.74 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects ③ 8 h
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	0.17 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects ③ 8 h
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	130 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects ③ 8 h

Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	26 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects ③ 8 h
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	26,400 mg/m³	① DNEL Consumer ② Acute - inhalation, systemic effects ③ 0.25 h
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.6 mg/m³	① DNEL worker ② Long-term – inhalation, local effects ③ 8 h
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	0.1 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects ③ 8 h
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	5.36 mg/m³	① DNEL worker ② Acute - inhalation, local effects ③ 0.25 h
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	4 mg/m³	① DNEL Consumer ② Acute - inhalation, local effects ③ 0.25 h
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	4 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects ③ 8 h

Substance name	PNEC Value	① PNEC type
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.05 mg/L	① PNEC aquatic, freshwater
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	0.005 mg/L	① PNEC aquatic, marine water
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	20 mg/L	① PNEC sewage treatment plant
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	0.181 mg/kg sediment dw	① PNEC sediment, freshwater
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.018 mg/kg sediment dw	① PNEC sediment, marine water
N-(3-(trimethoxysilyl)propyl)ethylenediami CAS No.: 1760-24-3 EC No.: 217-164-6	0.007 mg/kg soil dw	① PNEC soil

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 EN ISO 16321-1

Skin protection:

Tested protective gloves must be worn EN ISO 374. Breakthrough times and swelling properties of the material must be taken into consideration. Recommended glove material: Protective gloves made of: Butyl rubber. Material thickness: > 0.3 mm, breakthrough time: > 480 min
Recommended glove material: Protective gloves made of: Nitrile rubber. Material thickness: > 0.4 mm, breakthrough time: 10 - 30 min.
In the case of wanting to use the gloves again, clean them before taking off and air them well.

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 Use suitable breathing apparatus. according to recognised standards such as: EN 136 / EN 14387. e.g. AP2

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
Form: Liquid
Colour: various
Odour: not determined
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not applicable*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	*No data available*		
Flash point	> 60.1 °C		① c.c.
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	≈ 1.2 – ≈ 1.4 g/cm³	20 °C	① DIN EN ISO 2811-2
Bulk density	*not applicable*		
Water solubility	practically insoluble		
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.

10.2. Chemical stability
Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials
Reacts with water, alkaline substances and acids. The reaction takes place with the formation of ethanol.

10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

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

Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	
LD_{50} oral: 1,049 mg/kg (rat) OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)	
LD_{50} dermal: 3,014 mg/kg (rabbit) OECD Guideline 402 (Acute Dermal Toxicity)	
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	
LD_{50} oral: >5,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)	
LD_{50} dermal: >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)	

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.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

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.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

12.1. Toxicity

Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9
LC_{50}: >100 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: >100 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: ≥100 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: ≥100 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 9.4 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2. Persistence and degradability

Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9
Biodegradation: —

12.3. Bioaccumulative potential

Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9
Log K_{OW}: 0.015

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6
Results of PBT and vPvB assessment: —

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

12.6. Endocrine disrupting properties

The substance/mixture does not contain components that are endocrine disruptors according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more..

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

08 02 99	Wastes not otherwise specified

Waste code packaging

08 02 99	Wastes not otherwise specified

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

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

Synthetic polymer microparticles (as per entry 78 in Annex XVII of Regulation (EC) No. 1907/2006)

No synthetic microparticles are present.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.
2008/98/EC, 2001/118/EC, 1999/13/EC, 2004/42/EC, (EG) Nr. 1907/2006, (EU) 2015/830, 75/324/EEC 2008/47/EC, (EG) Nr. 1272/2008, Occupational accident insurance: 2008/68/EC, (EG) Nr. 648/2004.
VOC EU limit (2004/42 / EC) (Cat IIA /i): (Lb) 500 g/L, VOC value < 5 g/L
This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

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

Description:

Classification according to VwVwS, Annex 3.

Technische Regeln für Gefahrstoffe

Technical Rules for Hazardous Substances: TRGS 200, TRGS 401, TRGS 510, TRGS 720, TRGS 721, TRGS 722, TRGS 800, RGS 900, TRGS 905

Other regulations, restrictions and prohibition regulations
Hazardous Substances Ordinance (GefStoffV), Clean Water Act (CWA) (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
See overview table at www.euphrac.eu

16.3. Key literature references and sources for data
European Chemicals Agency https://echa.europa.eu

Substance name	Type	source of supply
Trimethoxyphenylsilane CAS No.: 2996-92-1 EC No.: 221-066-9	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	LD_{50} oral; LD_{50} dermal	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]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

Hazard statements	
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

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 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.