

SAFETY DATA SHEET

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

Revision date: 27 May 2025

Print date: 30 Jul 2025

Version: 3

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innovative surface protection

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OBTEGO X-100 / 200 (B)

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

1.1. Product identifier

Trade name/designation:

OBTEGO X-100 / 200 (B)

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

Use of the substance/mixture:

Hardener for X-100 primer and X-200 joint resin.

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
Organic peroxides (<i>Org. Perox. D</i>)	H242: Heating may cause a fire.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Danger

Hazard statements for physical hazards

H242 Heating may cause a fire.

Hazard statements for health hazards

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard information

EUH208 Contains dibenzoyl peroxide. May produce an allergic reaction.

Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 Keep only in original packaging.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection//.

Precautionary statements Response

P370 + P378 In case of fire: Use : CO₂, Löschpulver oder Wassersprühstrahl zum Löschen verwenden to extinguish.

Precautionary statements Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary statements Disposal

P501 Dispose of contents/container to gemäß den örtlichen /regionalen/ nationalen/ internationalen Vorschriften entsorgen.

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.: 94-36-0 EC No.: 202-327-6 Index No.: 617-008-00-0	dibenzoyl peroxide Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319), Org. Perox. B (H241), Skin Sens. 1 (H317) Danger	≤ 50 weight-%
CAS No.: 94-49-5 EC No.: 202-338-6	ethylene dibenzoate Aquatic Chronic 2 (H411) 	≤ 50 weight-%

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

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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. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

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.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunk 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

Allergic reactions 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:

Foam alcohol resistant foam Extinguishing powder Sand Water spray jet Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hydrocarbons

Carbon monoxide & Carbon dioxide Combustible

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. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Provide adequate ventilation. Remove persons to safety.

Protective equipment:

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

Emergency procedures:

Remove all sources of ignition.

Provide adequate ventilation.

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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:

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

For cleaning up:

Do not rinse down with water. Water (with cleaning agent)

Other information:

Take up mechanically.

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).

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Fire prevent measures:

Take precautionary measures against static discharge.

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

Vapours can form explosive mixtures with air.

Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin. Additional measures for respiratory protection

High efficiency particulate air filter (HEPA filter)

Advices on general occupational hygiene

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.

Requirements for storage rooms and vessels:

Keep/Store only in original container. Do not allow to enter into surface water or drains.

Storage class (TRGS 510, Germany): 5.2 - Organic peroxides and self-reactive substances

7.3. Specific end use(s)

No data available

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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) from 17 Jun 2024	dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	① 1 mg/m ³ ② 4 mg/m ³ ⑤ (alveolengängige Fraktion) DFG, Y
TRGS 900 (DE) from 17 Jun 2024	dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	① 4 mg/m ³ ② 8 mg/m ³ ⑤ (einatembare Fraktion) DFG, Y

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

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 Suitable material: Butyl caoutchouc (butyl rubber)

Breakthrough time: 60 min

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

Suitable respiratory protection apparatus: Filter P2 Particle filter device (EN 143)

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Powder

Colour: white

Odour: not determined

flammability: Yes

Odour threshold: Nicht bestimmt.

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Melting point	<i>No data available</i>		
Freezing point	<i>No data available</i>		
Initial boiling point and boiling range	400 °C		

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Parameter	Value	at °C	① Method ② Remark
Decomposition temperature	60 °C		
Flash point	180 °C		
Evaporation rate	No data available		
Auto-ignition temperature	not applicable		
Vapour pressure	1 hPa	20 °C	
Density	1.24 g/cm ³	20 °C	
Bulk density	0.56 g/cm ³	20 °C	
Water solubility	not applicable		
Kinematic viscosity	not applicable		

particle characteristics:

No data available

9.2. Other information

Solid content 100%

9.2.1. Information with regard to physical hazard classes

Organic peroxides:

Heating may cause a fire.

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.
Danger of dust explosion.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Reducing agent Heavy metals Acid Alkali (Iye)

10.6. Hazardous decomposition products

Hydrocarbons
Carbon monoxide & Carbon dioxide Gases/vapours, toxic

Further information

Do not allow to enter into surface water or drains.

SECTION 11: Toxicological information

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

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

LD₅₀ oral: 5,000 mg/kg (Ratte)

LC₅₀ Acute inhalation toxicity (vapour): 24.3 mg/L 4 h (Ratte)

ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6

LD₅₀ oral: >2,000 mg/kg (rat)

LD₅₀ dermal: >2,000 mg/kg (rat)

Acute oral toxicity:

Based on available data, the classification criteria are not met. Das Produkt enthält keine Stoffe mit endokrinschädlichen Eigenschaften.

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:

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

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause an allergic skin 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

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6
--

LC₅₀ : 2 mg/L 4 d (fish)
--

ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6

LC₅₀ : >0.434 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) OECD Guideline 203 (Fish, Acute Toxicity Test)
--

EC₅₀ : >0.87 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Freshwater Alga and Cyanobacteria, Growth Inhibition Test)

EC₅₀ : >2.4 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
--

NOEC : 0.045 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Freshwater Alga and Cyanobacteria, Growth Inhibition Test)
--

NOEC : 2.4 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
--

NOEC : 0.65 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
--

LOEC : 0.093 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Freshwater Alga and Cyanobacteria, Growth Inhibition Test)
--

LOEC : 1.4 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Assessment/classification:

water hazard class 1 (Selbsteinstufung): slightly hazardous to water

Additional ecotoxicological information:

Very toxic to aquatic life.

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12.2. Persistence and degradability

ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6

Biodegradation: not applicable

12.3. Bioaccumulative potential

ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6

Log K_{ow}: 3.75

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

Results of PBT and vPvB assessment: —

ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6

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

12.6. Endocrine disrupting properties

Das Product contains: none Substances mit Endocrine disrupting properties

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

16 09 03 * peroxides, for example hydrogen peroxide

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 3 Flammable

HP 4 Irritant — skin irritation and eye damage

Waste code packaging





15 01 02 Plastic packaging

Waste treatment options

Appropriate disposal / Product:

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			
UN 3106	UN 3106	UN 3106	UN 3106
14.2. UN proper shipping name			
ORGANISCHES PEROXID TYP D, FEST (Dybenzoylperoxid)	ORGANISCHES PEROXID TYP D, FEST (Dybenzoylperoxid)	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
14.3. Transport hazard class(es)			
 5.2	 5.2	 5.2	 5.2
14.4. Packing group			
		-	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special Provisions: 122 / 274 Limited quantity (LQ): 500 g Excepted Quantities (EQ): E0 Classification code: P1 Tunnel restriction code: (D)	Special Provisions: 122 / 274 Limited quantity (LQ): 500 g Excepted Quantities (EQ): E0 Classification code: P1	Special Provisions: 122 / 274 Limited quantity (LQ): 500 g Excepted Quantities (EQ): E0 EmS-No.: F-J, S-R Remark: Environmental hazards:Marine pollutant	Special Provisions: A20 Excepted Quantities (EQ): E0

14.7. Maritime transport in bulk according to IMO instruments

Additional information:

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):

Hazard categories:

- P6b Self-reactive substances and mixtures, Type C, D, E or F, or organic peroxides, Type C, D, E or F
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients are included.

Seveso category

P6b SELF-RESPONSIBLE SUBSTANCES AND MIXED AND ORGANIC Peroxides

E1 Hazardous to the aquatic environment

Quantity threshold (in tonnes) for use in lower-tier establishments 50 t Quantity threshold (in tonnes) for use in upper-tier establishments 200 t

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients are included

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients are included.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVE OUTPUTS (Upper concentration limit for authorisation under Article 5(3))

None of the ingredients are present.

Annex II - DECLARABLE EXPLOSIVE EXIT SUBSTANCES

None of the ingredients is included.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug substitutes

None of the ingredients are included

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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:

Hazard categories:

- P6b Self-reactive substances and mixtures, Type C, D, E or F, or organic peroxides, Type C, D, E or F
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Anteil 1:

50 weight-%

Klasse 2:

Klasse II

Water hazard class

WGK:

1 - slightly hazardous to water

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
ethylene dibenzoate CAS No.: 94-49-5 EC No.: 202-338-6	LD ₅₀ oral; LD ₅₀ dermal; LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	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
Organic peroxides (<i>Org. Perox. D</i>)	H242: Heating may cause a fire.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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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.