

# SAFETY DATA SHEET

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

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## OBTEGO X-300 (B) ; Härter

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

#### 1.1. Product identifier

Trade name/designation:

**OBTEGO X-300 (B) ; Härter**

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

Use of the substance/mixture:

Solvent-free 2-component methacrylate resin mortar with high compressive and flexural strength.

#### 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
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

Signal word: Danger

#### Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

#### hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

#### Supplemental hazard information

EUH208 Contains tetramethylene dimethacrylate, methyl methacrylate. May produce an allergic reaction.

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## OBTEGO X-300 (B) ; Härter

### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
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### Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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### 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.: 80-62-6 EC No.: 201-297-1	<b>methyl methacrylate</b> Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1   <b>Danger</b> H225-H315-H317-H335	50 - 100 weight-%
CAS No.: 99-97-8 EC No.: 202-805-4	<b>N,N-dimethyl-p-toluidine</b> Acute Tox. 3, Aquatic Chronic 3, STOT RE 2   <b>Danger</b> H301-H311-H331-H373-H412	0.5 - 2.5 weight-%
CAS No.: 2082-81-7 EC No.: 218-218-1	<b>tetramethylene dimethacrylate</b> Skin Sens. 1B  <b>Warning</b> H317	≤ 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. Get medical advice/attention if you feel unwell.

#### 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:

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:

Rinse mouth. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions Irritation to respiratory tract

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic; Hydrocarbons, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### 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. 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

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:

Do not rinse down with water. Solvents/Thinner

### 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.

##### Fire prevent measures:

Take precautionary measures against static discharges. Keep container tightly closed in a cool, well-ventilated place. Vapours can form explosive mixtures with air.

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### Advices on general occupational hygiene

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.

#### Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Do not allow to enter into surface water or drains.

**Storage class:** 3 - Flammable liquids

### 7.3. Specific end use(s)

#### GISCODE:

RMA20

## 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
IOELV (EU)	methyl methacrylate CAS No.: 80-62-6 EC No.: 201-297-1	① 50 ppm ② 100 ppm
TRGS 900 (DE)	methyl methacrylate CAS No.: 80-62-6 EC No.: 201-297-1	① 50 ppm (210 mg/m <sup>3</sup> ) ② 100 ppm (420 mg/m <sup>3</sup> )
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m <sup>3</sup> ⑤ Mass fraction (wt %): 0

#### 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 DIN 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. Breakthrough times and swelling properties of the material must be taken into consideration.

##### Respiratory protection:

Suitable respiratory protection apparatus: Filter A

#### 8.2.3. Environmental exposure controls

No data available

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

##### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	-48 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	100 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	10 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	2.1 - 12.5 Vol-%			
Vapour pressure	38.7 hPa	20 °C		
Vapour density	<i>not determined</i>			
Density	0.94 g/cm <sup>3</sup>	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	Immiscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	1 mPa*s	20 °C		
Kinematic viscosity	<i>not determined</i>			

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

Protect from direct sunlight.

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

Violent reaction with: Peroxides, Radical former

#### 10.6. Hazardous decomposition products

; Hydrocarbons, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

#### Further information

Do not allow to enter into surface water or drains.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Substance name	Toxicological information
methyl methacrylate CAS No.: 80-62-6 EC No.: 201-297-1	<b>LD<sub>50</sub> oral:</b> 7,870 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 29.8 mg/l 4 h (Rat)
N,N-dimethyl-p-toluidine CAS No.: 99-97-8 EC No.: 202-805-4	<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 1.4 mg/l 4 h (Ratte)

**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:**

Causes skin irritation.

**Serious eye damage/irritation:**

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

**Respiratory or skin sensitisation:**

May cause an allergic skin reaction. Contains tetramethylene dimethacrylate, methyl methacrylate. 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:**

May cause respiratory irritation.

**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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Substance name	Toxicological information
methyl methacrylate CAS No.: 80-62-6 EC No.: 201-297-1	<b>LC<sub>50</sub>:</b> 311 mg/l 4 d (fish) <b>NOEC:</b> >110 mg/l 3 d (Selenastrum capricornutum) <b>NOEC:</b> 37 mg/l (Daphnia magna (Big water flea)) <b>EC<sub>50</sub>:</b> 170 mg/l 4 d (Selenastrum capricornutum) <b>EC<sub>50</sub>:</b> 69 mg/l 2 d (Daphnia magna (Big water flea))
N,N-dimethyl-p-toluidine CAS No.: 99-97-8 EC No.: 202-805-4	<b>LC<sub>50</sub>:</b> 46 - 52.8 mg/l 4 d (fish)

#### 12.2. Persistence and degradability

No data available

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### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
methyl methacrylate CAS No.: 80-62-6 EC No.: 201-297-1	—
N,N-dimethyl-p-toluidine CAS No.: 99-97-8 EC No.: 202-805-4	—
tetramethylene dimethacrylate CAS No.: 2082-81-7 EC No.: 218-218-1	—

### 12.6. 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:

07 02 08 \* other still bottoms and reaction residues

\*: Evidence for disposal must be provided.

#### Waste code packaging:





15 01 04 metallic 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)
<b>14.1. UN-No.</b>			
UN 1247	UN 1247	UN 1247	UN 1247
<b>14.2. UN proper shipping name</b>			
METHYL METHACRYLATE MONOMER, STABILIZED	METHYL METHACRYLATE MONOMER, STABILIZED	METHYL METHACRYLATE MONOMER, STABILIZED	METHYL METHACRYLATE MONOMER, STABILIZED
<b>14.3. Transport hazard class(es)</b>			
 3	 3	 3	 3
<b>14.4. Packing group</b>			
II	II	II	II

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> 386 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Hazard identification number (Kemler No.):</b> 339 <b>Classification code:</b> F1 <b>tunnel restriction code:</b> (D/E) <b>Remark:</b>	<b>Special provisions:</b> 386 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Classification code:</b> F1 <b>Remark:</b>	<b>Special provisions:</b> 386 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>EmS-No.:</b> F-E, S-D <b>Remark:</b>	<b>Special provisions:</b> A209 <b>Limited quantity (LQ):</b> Y341 <b>Excepted Quantities (EQ):</b> E2 <b>Remark:</b>

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

No data available

#### 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).

#### Water hazard class

##### WGK:

1 - schwach wassergefährdend

### 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](http://www.euphrac.eu)

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

No data available



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### 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
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H412	Harmful to aquatic life with long lasting effects.

### 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.