



Material Safety Data Sheet
according to regulation EC No. 453/2010 REACH

obocastulan® 1850 blue
Polyurethane board material

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[1]

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1.) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY NAME

Commercial name: **obocastulan® 1850 blue**
Use of substance/mixtures: not available
Manufacturer/supplier: OBO-Werke GmbH
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Please take note that this document is not a legal requirement.

2.) HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Product definition: article

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)
Not classified.

Classification according to Directive 67/548/EEC (DSD)
Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2. Label elements

Hazard pictograms
Signal word: no signal word
Hazard statements: no known significant effects or critical hazards

Precautionary statements
Prevention: not applicable
Response: not applicable not
Storage: applicable not
Disposal: applicable not
Supplemental label elements: applicable

2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII: not available
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: not available
Other hazards which do not result in classification: not available



3.) COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture: article
Chemical family/characteristics: polyurethane

Product/ingredient name Identifiers	%	Classification		Type
		67/548/EEC	Regulation (EC) No. 1272/2008 [CPL]	
obocastulan® 1850 blue	60 - 100	Not classified See section 16 for the full text of the R-phrases declared above	Not classified See section 16 for the full text of the H-statements declared above	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence required reporting in the section.

Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

4.) FIRST AID MEASURES

4.1. Description of first aid measures:

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contacts lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personal. Get medical attention if symptoms occur.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2. Most important symptoms and effects, both acute and delayed potential acute health effects:

Eye contact: No known significant effects or critical hazards
Inhalation: No known significant effects or critical hazards
Skin contact: No known significant effects or critical hazards
Ingestion: No known significant effects or critical hazards



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

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment

5.) FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture:

Hazards from the substance or mixture: No specific fire or explosion hazard
Hazardous thermal decomposition products: No specific data

5.3. Advice for firefighters:

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6.) ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures for non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental:

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and materials for containment and cleaning up:

Small spill:

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.



Large spill:

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4. Reference to other sections:

See section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information.

7.) HANDLING AND STORAGE

7.1. Precautions for safe handling:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations.

7.3. Specific end uses(s):

Recommendations: not available

Industrial sector specific solutions: not available

8.) EXPOSURE CONTRALS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

No exposure limit value know.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity or use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effects levels:

no DELs available

Predicted effect concentrations:

no PECs available

8.2. Exposure controls

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Individual protection measures****Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection/hand protection:

No special measures required.

Body protection:

No special measures required.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

No special measures required.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9.) PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties Appearance:**

Physical state:	Block
Colour:	blue
Odour:	Odourless
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling:	Not available
Flash point:	Closed cup: not applicable
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Burning time:	Not available
Burning rate:	Not available
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Density:	1840 kg/m ³
Solubility:	Not soluble in water
Partition coefficient: n-octanol/water	Not available



Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

9.2. Other information:

No additional information

10.) STABILITY AND REACTIVITY**10.1. Reactivity:**

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability:

The product is stable.

10.3. Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Condition to avoid:

No specific data.

10.5. Incompatible materials:

Not specific data.

10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.) TOXICOLOGICAL INFORMATIONS**11.1. Information on toxicological effects:**

Acute toxicity

Conclusion/summary: not available

Irritation/corrosion

Conclusion/summary: not available

Sensitization

Conclusion/summary: not available

Mutagenicity

Conclusion/summary: not available

Carcinogenicity

Conclusion/summary: not available

Reproductive toxicity

Conclusion/summary: not available



Teratogenicity
Conclusion/summary: not available

Specific target organ toxicity (single exposure):

Not available

Specific target organ toxicity (repeated exposure):

Not available

Aspiration hazard:

Not available

Information on the likely routes of exposure:

Not available

Potential acute health effects:

Eye contact: no known significant effects or critical hazards

Inhalation: no known significant effects or critical hazards

Contact: no known significant effects or critical hazards

Ingestion: no known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: no specific data

Inhalation: no specific data skin

Contact: no specific data

Ingestion: no specific data

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects: not available

Potential delayed effects: not available

Long term exposure:

Potential immediate effects: not available

Potential delayed effects: not available

Potential chronic health effects: not available

Conclusion/summary: not available

General: no known significant effects or critical hazards

Carcinogenicity: no known significant effects or critical hazards

Mutagenicity: no known significant effects or critical hazards

Teratogenicity: no known significant effects or critical hazards

Developmental effects: no known significant effects or critical hazards

Fertility effects: no known significant effects or critical hazards

Other information: not available

**12.) ECOLOGICAL INFORMATION**

- 12.1. Toxicity
Conclusion/summary: not available
- 12.2. Persistence and degradability
Conclusion/summary: not available
- 12.3. Bio accumulative potential: not available
- 12.4. Mobility in soil
Soil/water partition coefficient (KOC): not available
Mobility: not available
- 12.5. Results of PBT and vPvB assessment:
PBT: not available
vPvB: not available
- 12.6. Other adverse effects: not known significant effects or critical hazards

13.) DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Methods of disposal:**

In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin of waste. Therefor it is not possible to assign a particular waste identification number. Completely emptied packaging may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14.) TRANSPORT INFORMATION

	ADR/RID-AND/ADNR	IMDG	IATA
14.1. UN number	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
14.3. Transport hazard	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards			
14.6. Special precautions for user	Not available	Not available	Not available
Additional information	-	-	-

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



15.) REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization substances of very high concern:

None of the components are listed

Annex XVII – Restrictions: not applicable

On the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles other EU regulations.

REACH Information:

All substances contained in OBO products are:

- preregistered or registered by our upstream suppliers, and/or
- excluded from the regulation, and/or
- exempted from the registration

Europe inventory: not available

National regulations hazard class for water:

Nwh according Appendix No. 4 (according VwVws of 17. May 1999)

Technical instruction on air quality control: TA-Luft Number 5.2.1: 100 % (Germany)

15.2. Chemical safety assessment:

This product contains substances for which chemical safety assessments are still required.

16.) OTHER INFORMATION:

Indicated information that has changed from previously issued version.

Abbreviations and acronyms:

ATE	=	Acute Toxicity Estimate
CLP	=	Classification, labelling and packaging regulation [regulation (EC) no. 1272/2008.]
DNEL	=	Derived no effect level
EUH statement	=	CLP-specific hazard statement
PNEC	=	Predicted no effect concentration
RRN	=	REACH registration number

Full text of abbreviated H statements:	not applicable
Full text of classifications [CLP/GHS]:	not applicable full
Text of abbreviated R phrases:	not applicable full
Text of classifications [DSD/DPD]:	not applicable

Notice to reader:

The information contained in the safety data sheet corresponds to our level of knowledge at the time of publications. All warranties are excluded. Our most current general sales conditions shall apply. Please consult the product data sheet prior to any use and processing.