

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

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

- **1.1 Product identifier**
- **Trade name:** OTTOSEAL P 305
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hermann Otto GmbH  
Krankenhausstraße 14  
D-83413 Fridolfing  
Tel.: 0049/(0)8684/908-0  
Fax.: 0049/(0)8684/908-539
- **Further information obtainable from:**  
Tel.: 0049- (0)8684- 908- 641 ( -460 )  
E-Mail: alois.parzinger@otto-chemie.de
- **1.4 Emergency telephone number:** Tel.: 0049- (0) 89- 192 40 (emergency telephone no.)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Hardener LI (Isophoronedialdimine)  
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**

P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- **Additional information:**  
Contains isocyanates. May produce an allergic reaction.
- **2.3 Other hazards**  
Information according to REACH- Annex XVII.56
  - Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
  - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
  - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type A1 according to standard EN 14387) is used.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

Trade name: OTTOSEAL P 305

(Contd. of page 1)

· vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

##### · Description:

Prepolymer, based on diphenylmethandiisocyanat with monomeric and polymeric contents

##### · Dangerous components:

CAS: 77703-56-1	4,4'-METHYLENEBIS(1-BUTYL-3-PHENYLUREA)	< 5%
-----------------	---	------

ELINCS: 416-600-4	⚠ Eye Irrit. 2, H319; Aquatic Chronic 4, H413	
-------------------	---	--

Reg.nr.: 01-0000016345-72-XXXX		
--------------------------------	--	--

CAS: 932742-30-8	Hardener LI (Isophoronedialdimine)	< 1%
------------------	------------------------------------	------

EC number: 700-071-4	⚠ Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
----------------------	--	--

Reg.nr.: 01-2119880654-28-xxxx		
--------------------------------	--	--

01-2119442290-50-xxxx		
-----------------------	--	--

EC number: 915-687-0	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl)	< 0.25%
----------------------	---	---------

Reg.nr.: 01-2119491304-40-xxxx	sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl	
--------------------------------	---	--

	sebacate	
--	----------	--

⚠	Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	
---	---	--

⚠	Skin Sens. 1A, H317	
---	---------------------	--

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### · After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

##### · After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

##### · After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

##### · After swallowing

Do not induce vomiting; call for medical help immediately. Show container or label.

#### · 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### · For safety reasons unsuitable extinguishing agents Water with full jet.

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

Formation of toxic gases is possible during heating or in case of fire.

#### · 5.3 Advice for firefighters

##### · Protective equipment:

Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

GB

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

Trade name: OTTOSEAL P 305

(Contd. of page 2)

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
see item 8: Personal protective equipment
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type A1 according to standard EN 14387) is used.
- **Protection of hands:** Protective gloves.
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
Fluorocarbon rubber (Viton)  
Recommended thickness of the material:  $\geq 0.4$  mm
- **Penetration time of glove material** Breakthrough time: > 30 min
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**  
**Form:** pasty

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

Trade name: OTTOSEAL P 305

(Contd. of page 3)

- Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/freezing point:** undetermined
  - Initial boiling point and boiling range:** undetermined
- **Flash point:** Not applicable
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** not applicable
  - Upper:** not applicable
- **Oxidising properties:** Not determined.
- **Vapour pressure:** Not determined.
- **Density:** see technical datasheet
- **Vapour density:** Not applicable.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with**
  - Water:** Hydrolized
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:** Not determined.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
Avoid strong heating.
- **10.3 Possibility of hazardous reactions**  
Reacts with alcohols  
Reacts with amines  
Exothermic reaction
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** see item 5.2

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values relevant for classification:**
- 
- 932742-30-8 Hardener LI (Isophoronedialdimine)**  
Oral LD50 >2,000 mg/kg (rat)  
Dermal LD50 >2,000 mg/kg (rab)
- Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**  
Oral LD50 3,230 mg/kg (rat)
- **Primary irritant effect:**
  - **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.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

Trade name: OTTOSEAL P 305

(Contd. of page 4)

- **Respiratory or skin sensitisation**  
Sensitive people may react strongly to minimal concentrations. We advise asthmatics and people who tend to diseases of the respiratory tracts against the contact with this product.  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

### SECTION 12: Ecological information

- **12.2 Persistence and degradability**
- **Other information:** Product is not biodegradable.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Observe local by-laws.  
Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

(Contd. on page 6)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

Trade name: OTTOSEAL P 305

(Contd. of page 5)

- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
Contains (1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich)  
REACH Annex XVII Entry 52 must be observed
- **Details of international registration status:**  
**Listed on or in accordance with the following inventories:**

EINECS - Europe	listed
AICS - Australia	not listed
DSL/NDSL - Canada	not listed
IECSC - China	not listed
ENCS - Japan	not listed
NZIoC - New Zealand	not listed
PICCS - Philippines	not listed
ECL/KECI - Korea	not listed
TSCA - USA	listed
NECI - Taiwan	not listed
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.
- **Department issuing SDS:** Tel.: 0049- (0)8684- 908- 641
- **Contact:** Tel.: 0049- (0)8684- 908- 641 ( -460 )
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 21.02.2018

Version 1

Revision: 21.02.2018

**Trade name: OTTOSEAL P 305**

(Contd. of page 6)

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*  
*Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*

· \* **Data compared to the previous version altered.**

GB