

# Safety data sheet

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

Printing date 31.01.2020

Version 4

Revision: 31.01.2020

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

- **1.1 Product identifier**
- **Trade name: OTTOCOLL® M 580 Comp. A**
- **UFI: 4DS0-W0ST-500P-P1RU**
- **Application of the substance / the mixture** Preparation of adhesives
- **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**



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **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** GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
N-(3-(trimethoxysilyl)propyl)ethylenediamine  
3-(trimethoxysilyl)propylamine
- **Hazard statements**  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P102                      Keep out of reach of children.  
P271                      Use only outdoors or in a well-ventilated area.  
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 N-(3-(trimethoxysilyl)propyl)ethylenediamine, Dioctylzinnacetylacetonat. May produce an allergic reaction.
- **2.3 Other hazards**  
During the application and curing process of the material chemicals are released as vapour (see item 11). Therefore ensure good ventilation or exhaustion if necessary.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

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Trade name: OTTOCOLL® M 580 Comp. A

(Contd. of page 1)

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

· **Description:** Adhesive and sealant based on silane-terminated polymers (hybrid)

#### · **Dangerous components:**

CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	<5%
EINECS: 217-164-6	☠ Eye Dam. 1, H318; ☠ Aquatic Chronic 2, H411; ⚠ Acute	
Reg.nr.: 01-2119970215-39-xxxx	Tox. 4, H332; Skin Sens. 1, H317	
CAS: 13822-56-5	3-(trimethoxysilyl)propylamine	<5%
EINECS: 237-511-5	☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	
Reg.nr.: 01-2119510159-45-xxxx		
CAS: 54068-28-9	Diocetylzinnacetylacetonat	<1%
ELINCS: 483-270-6	☠ STOT SE 2, H371; ⚠ Skin Sens. 1, H317; Aquatic	
Reg.nr.: 01-0000020199-67-xxxx	Chronic 3, H412	
CAS: 52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	<1%
EINECS: 258-207-9	☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; Aquatic	
Reg.nr.: 01-2119537297-32-xxxx	Chronic 2, H411	

· **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

##### · **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.

### 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.

#### 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:**

Do not inhale explosion gases or combustion gases.

Mount respiratory protective device.

### 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:

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

(Contd. on page 3)

# Safety data sheet

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Version 4

Revision: 31.01.2020

**Trade name: OTTOCOLL® M 580 Comp. A**

(Contd. of page 2)

- **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

- **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:**

- **CAS No. Designation of material % Type Value Unit**

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

**67-56-1 methanol**

WEL Short-term value: 333 mg/m<sup>3</sup>, 250 ppm

Long-term value: 266 mg/m<sup>3</sup>, 200 ppm

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- **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 ABEK 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

Recommended glove types: nitrile rubber

Recommended thickness of the material:  $\geq 0.2$  mm

- **Penetration time of glove material** Breakthrough time: > 60 min

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing.

GB

(Contd. on page 4)

# Safety data sheet

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

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Version 4

Revision: 31.01.2020

Trade name: OTTOCOLL® M 580 Comp. A

(Contd. of page 3)

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: *pasty*
  - 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*
- **Decomposition temperature:** *Not determined.*
- **Auto-ignition temperature:** *Product is not selfigniting.*
- **Explosive properties:** *Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
- **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:** *Not miscible or difficult to mix*
- **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.*
- **10.6 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:**

#### 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Oral LD50 2,995 mg/kg (rat)  
 Dermal LD50 >2,000 mg/kg (rab)  
 Inhalative LC50/4 h 1.49-2.44 mg/l (rat)

(Contd. on page 5)

# Safety data sheet

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

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Version 4

Revision: 31.01.2020

Trade name: OTTOCOLL® M 580 Comp. A

(Contd. of page 4)

**13822-56-5 3-(trimethoxysilyl)propylamine**

Oral LD50 2,970 mg/kg (rat)

Dermal LD50 11,300 mg/kg (rab)

**52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate**

Inhalative LC50/4 h 7.7 mg/l (rat) (für Staub)

**54068-28-9 Dioctylzinnacetylacetonat**

Oral LD50 2,500 mg/kg (rat)

Dermal LD50 &gt;2,001 mg/kg (rat)

· **Primary irritant effect:**· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.· **Other information (about experimental toxicology):**

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable. Inhalation of aerosol spray may damage health.

· **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

· **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

(Contd. on page 6)

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Trade name: OTTOCOLL® M 580 Comp. A

(Contd. of page 5)

- **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.
- **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.
- **Details of international registration status:**  
**Listed on or in accordance with the following inventories:**
  - REACH - Europe listed
  - AICS - Australia not listed
  - DSL - Canada not listed
  - IECSC - China not listed
  - ENCS - Japan not listed
  - NZIoC - New Zealand not listed
  - PICCS - Philippines not listed
  - ECL - Korea not listed
  - TSCA - USA not listed
  - TCSI - 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**
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H332 Harmful if inhaled.
  - H371 May cause damage to organs.
  - H400 Very toxic to aquatic life.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
- **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

(Contd. on page 7)



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(Contd. of page 6)

*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**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 2: Specific target organ toxicity (single exposure) – Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**\* **Data compared to the previous version altered.***

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