

# Safety data sheet

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

Printing date 15.03.2023

Version 4 (replaces version 3)

Revision: 15.03.2023

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

- **1.1 Product identifier**
- **Trade name:** **OTTOSEAL S 51**
- **UFI:** QTD1-90SH-D00H-66FE
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Silicone 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)8684/908-1840
- **Further information obtainable from:**  
Tel.: 0049- (0)8684- 908- 2363 ( -4300 )  
E-Mail: alois.parzinger@otto-chemie.de
- **1.4 Emergency telephone number:**  
Tel.: 0049- (0) 89- 192 40 (emergency telephone no.)  
+44 1865 407333 (Carechem 24)

### SECTION 2: Hazards identification

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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- **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:** Ensure good ventilation during application and curing.
- **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

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· **Description:** Polydimethylsiloxane, filler, auxiliaries and amine-oxime-silane crosslinker

#### · **Dangerous components:**

CAS: 15901-40-3	N,N',N''-tricyclohexyl-1-methylsilanetriamine	<2.5%
EINECS: 240-040-8	⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	
Reg.nr.: 01-2120765341-58-0000		
CAS: 37859-55-5	2-Pentanone, O,O',O''-(methylsilylidyne)trioxime	<2.5%
ELINCS: 484-460-1	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	
Reg.nr.: 01-2120004323-76-xxxx		

· **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:**

Mount respiratory protective device.  
Do not inhale explosion gases or combustion gases.

### 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.

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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

### · 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:**

##### **108-91-8 cyclohexylamine**

WEL Long-term value: 41 mg/m<sup>3</sup>, 10 ppm

#### · **Additional information:**

The lists valid during the making were used as basis.

Reaction product 2-Pentanoneoxime CAS: 623-40-5

DNEL (Data for WORKERS)

INHALATION Exposure

Systemic Effects

Long-term: (DNEL) 8,3 mg/m<sup>3</sup>

Acute/ short term: (DNEL) 24,9 mg/m<sup>3</sup>

Source: ECHA

### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as 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.

· **Hand protection** 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.

Recommended glove types: nitrile rubber

Recommended thickness of the material: >0,4 mm

· **Penetration time of glove material** Breakthrough time: 10 - 30 min

· **Eye/face 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**

· **Physical state**

Solid.

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Melting point/freezing point:**

undetermined

· **Boiling point or initial boiling point and boiling range**

undetermined

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- **Lower and upper explosion limit**
- **Lower:** not applicable
- **Upper:** not applicable
- **Flash point:** Not applicable
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:** Not determined.
- **Solubility**
- **Water:** Insoluble
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density:** see technical datasheet
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Particle characteristics** undetermined
- **9.2 Other information**
- **Form:** pasty
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Information with regard to physical hazard classes**
- **Aerosols** Void
- **Flammable liquids** Void

### 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**  
No dangerous reactions known  
Under the effect of humidity, water und protic agents: cyclohexylamin.
- **10.6 Hazardous decomposition products:**  
Tests on representative products have shown that above temperatures of 150° C small quantities of formaldehyde are split off.  
see item 5.2

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values relevant for classification:**
- 
- 15901-40-3 N,N',N''-tricyclohexyl-1-methylsilanetriamine**  
Oral LD50 637 mg/kg (rat)  
Dermal LD50 1,594 mg/kg (rat)
- 37859-55-5 2-Pentanone, O,O',O''-(methylsilyldi)trioxime**  
Oral LD50 1,234 mg/kg (rat)
- **Skin corrosion/irritation** Causes skin irritation.
  - **Serious eye damage/irritation** Causes serious eye irritation.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.

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- **Other information (about experimental toxicology):**

During the application of the product butanone-2-oxime (MEKO) is released. MEKO might affect the mucous membrane of the nose by long time exposition. If MEKO is breathed in high concentrations over a long period (e.g. in case of insufficient ventilation), it might cause irreversible health defects. During the application of the product 2-Pentanoxim (CAS: 623-40-5) is released. 2-Pentanoxim is harmful if swallowed, causes serious eye irritation, may cause damage to organs through prolonged or repeated exposure and is harmful to aquatic life with long lasting effects. In contact with dampness product separates a small quantity of cyclohexylamine (108-91-8) which irritates skin, mucous membranes and respiratory system.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.2 Persistence and degradability**

- **Other information:** Product is not biodegradable.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

### 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 or ID 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

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- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** 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:  
 UK REACH - Europe listed  
 AICS - Australia 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 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**  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H319 Causes serious eye irritation.
- **Department issuing SDS:** Tel.: 0049- (0)8684- 908- 2363
- **Contact:** Tel.: 0049- (0)8684- 908- 2363 ( -4300 )
- **Abbreviations and acronyms:**  
 ADR: Accord relatif au transport international 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  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- **\* Data compared to the previous version altered.**