

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version 1

Revision: 31.05.2017

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

- **1.1 Product identifier**
- **Trade name:** **OTTOSEAL S 51**
- **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)8684/908-539*
- **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 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 CLP regulation.
- **Hazard pictograms** *GHS07*
- **Signal word** *Warning*
- **Hazard statements**
*H315 Causes skin irritation.
H319 Causes serious eye irritation.*
- **Precautionary statements**

<i>P102</i>	<i>Keep out of reach of children.</i>
<i>P271</i>	<i>Use only outdoors or in a well-ventilated area.</i>
<i>P302+P352</i>	<i>IF ON SKIN: Wash with plenty of soap and water.</i>
<i>P304+P312</i>	<i>IF INHALED: Call a POISON CENTER/doctor if you feel unwell.</i>
<i>P305+P351+P338</i>	<i>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</i>
<i>P313</i>	<i>Get medical advice/attention.</i>
- **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.*

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Polydimethylsiloxane, filler, auxiliaries and amine-oxime-silane crosslinker*

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· Dangerous components:

- | | | |
|-------------------|--|--------|
| CAS: 15901-40-3 | <i>N,N',N''-tricyclohexyl-1-methylsilanetriamine</i> | < 2.5% |
| EINECS: 240-040-8 | <i>⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312</i> | |
| CAS: 37859-55-5 | <i>O,O',O''-(methylsilylidyne)trioxime 2-pentanone</i> | < 2.5% |
| ELINCS: 484-460-1 | <i>⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319</i> | |
- **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**

CO₂, 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.

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.

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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:**
 - 108-91-8 cyclohexylamine**
 - WEL Long-term value: 41 mg/m³, 10 ppm
- **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.
 - Recommended glove types: nitrile rubber
 - Recommended thickness of the material: ≥ 0.2 mm
- **Penetration time of glove material** Breakthrough time: > 60 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
 - 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.

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- **Density at 20 °C:** 1.34 g/cm³
- **Vapour density** Not applicable.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Insoluble
- **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**
No dangerous reactions known
Under the effect of humidity, water und protic agents: butanon-2-oxim and 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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**
During the application of the product 2-Pentanoxim (CAS: 623-40-5) is released. 2-Pentanoxim causes serious eye irritation. If Pentanonoxim is breathed in high concentrations over a long period (e.g. in case of insufficient ventilation), it might cause irreversible health defects.
In contact with dampness product separates a small quantity of cyclohexylamine (108-91-8) which irritates skin, mucous membranes and respiratory system.
- **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.

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- 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.
- **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:
- | | |
|---------------------|------------|
| EINECS - Europe | listed |
| AICS - Australia | 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 |

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TSCA - USA not 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**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

- **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)

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- *** Data compared to the previous version altered.**

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