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

1.1 Product identifier
- Trade name: OTTOSEAL S 17
- Application of the substance / the mixture: Silicone sealant

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Hermann Otto GmbH
  Krankenhaustraße 14
  D-83413 Fridolfing
  Tel.: 0049/(0)8684/908-0
  Fax.: 0049/(0)8684/908-539

1.4 Emergency telephone number:
Tel.: 0049- (0)8684- 908- 641 ( -460 )
E-Mail: alois.parzinger@otto-chemie.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  The product is not classified according to the CLP regulation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable
- Information concerning particular hazards for human and environment:
  The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system:
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Additional information:
  Ensure good ventilation during application and curing.
  Contains mixture of butanone oximosilanes and butanone oxime, 3-aminopropyltriethoxysilane. May produce an allergic reaction.
  Safety data sheet available on request.

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 oximosilane crosslinker
Trade name: OTTOSEAL S 17

**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.
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.
  - Maximum concentration at workplace recommended by producer: methyl ethyl ketoxime (MEKO, CAS: 96-29-7, product of hydrolysis) = 3 ppm .

- 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.
      Fluorocarbon rubber (Viton)
      Nitrile rubber, NBR
      Natural rubber, NR
    - Penetration time of glove material
      The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - 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.
  - Change in condition
    - Melting point/Melting range: undetermined
    - Boiling point/Boiling range: undetermined
  - Flash point: undetermined
  - Self-igniting: Product is not selfigniting.
SECTION 10: Stability and reactivity

· 10.1 Reactivity
· 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
· 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:
· Primary irritant effect:
  · on the skin: Irritating effects to skin and mucous membranes possible
  · on the eye: Irritating effect possible
· Sensitisation:
  dermal: not sensitizing
  Source: test report OECD 406
· 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 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.
· Additional toxicological information:
  Product has not been tested. Assessment analogue to a similar product.

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: 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 MARPOL73/78 and the IBC Code

Not applicable.

14.8 Transport/Additional information:

Not dangerous according to the above specifications.

14.9 UN "Model Regulation": -

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
ENC - Japan not listed
NZIoC - New Zealand not listed
PICCS - Philippines not listed
ECL/KECI - Korea not listed
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
  - H226 Flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H412 Harmful to aquatic life with long lasting effects.
  - R10 Flammable.
  - R22 Harmful if swallowed.
  - R36 Irritating to eyes.
  - R36/38 Irritating to eyes and skin.
  - R43 May cause sensitisation by skin contact.
  - R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
  - R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Department issuing MSDS: 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)
  - Flam. Liq. 3: Flammable liquids, Hazard Category 3
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- * Data compared to the previous version altered.