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Product Name, Art.-No.: **Catalyst - 8052**

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

1.1 Product identifier Catalyst

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Impression material for use in dental technology.

1.3 Details of the supplier of the safety data sheet

Company name: Kohdent Roland Kohler Medizintechnik GmbH & Co. KG  
 Street: Bodenseeallee 14-16  
 Place: D-78333 Stockach  
 Telephone: +49 7771 / 64999-0  
 Telefax: +49 7771 / 64999-50  
 e-mail: [info@kohler-medizintechnik.de](mailto:info@kohler-medizintechnik.de)  
 Internet: [www.kohler-medizintechnik.de](http://www.kohler-medizintechnik.de)

1.4 Emergency telephone number: +49 7771 / 64999-0  
 This number is obtainable during office hours  
 (Monday- Thursday 7.00 a.m. – 5.30 p.m., Friday 7.00 a.m. – 12.30 p.m.)  
 +49 228 19240 (24 hour)  
 Poison information centre, D-53113 Bonn

## 2 Hazards identification

2.1 Classification of the substance or mixture

### Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: T – Toxic, Xn – Harmful, Xi - Irritant  
 R phrases:  
 May impair fertility.  
 May cause harm to the unborn child.  
 Harmful by inhalation and if swallowed.  
 Risk of serious damage to eyes.  
 Toxic: danger of serious damage to health by prolonged exposure if swallowed.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Possible risks of irreversible effects.

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:  
 Acute toxicity: Acute Tox. 4  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Germ cell mutagenicity: Muta. 2  
 Specific target organ toxicity - repeated exposure: STOT RE 1  
 Hazardous to the aquatic environment: Aquatic Chronic 3

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## 2.2 Label elements

Hazard Statements:  
 Harmful if swallowed or if inhaled.  
 Causes serious eye irritation.  
 Suspected of causing genetic defects.  
 Causes damage to organs through prolonged or repeated exposure.  
 Harmful to aquatic life with long lasting effects.

### Hazardous components which must be listed on the label

alkylstannosiloxane

Signal word:

Danger

Pictograms:

GHS07-GHS08



### Hazard statements

H302+H332 Harmful if swallowed or if inhaled.  
 H319 Causes serious eye irritation.  
 H341 Suspected of causing genetic defects.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P201 Obtain special instructions before use.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor.

### Special labelling of certain mixtures

EUH208 Contains Menthone. May produce an allergic reaction.

### Additional advice on labelling

According to Regulation (EC) 1272/2008, Art.1 No. 5 (d) this product as a medical product must not be labelled!

## 2.3 Other hazards

No information available

## 3 Composition / information on ingredients

### 3.2 Mixtures

#### Chemical characterization

Silicon-tin-compound with auxilliary matters.

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#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
300-344-4	alkylstannosiloxane	65 - < 70 %
93925-42-9	Muta. Cat. 3, Repr. Cat. 1, T - Toxic, Xn - Harmful, Xi - Irritant R60-61-10-20/22-41-48/25-52-53-68	
	Flam. Liq. 3, Muta. 2, Repr. 1, Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 1, Aquatic Chronic 3; H226 H341 H360D H302 H332 H318 H372 H412	
01-2119560586-30		
201-941-1	Menthone	< 1 %
89-80-5	Xi - Irritant R38-43	
	Skin Irrit. 2, Skin Sens. 1B; H315 H317	

Full text of R-, H- and EUH-phrases: see section 16.

#### 4 First aid measures

##### 4.1 Description of first aid measures

- General information: First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.
- After inhalation: Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.
- After contact with skin: After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- After contact with eyes: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
- After ingestion: Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

##### 4.2 Most important symptoms and effects, both acute and delayed

No information available

##### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## 5 Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

### 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Safe handling: see section 7  
 Personal protection equipment: see section 8  
 Disposal: see section 13

## 7 Handling and storage

### 7.1 Precautions for safe handling

#### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### **Advice on storage compatibility**

Do not store with strong oxidising materials.

#### **Further information on storage conditions**

Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs.

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7.3 Specific end Use(s) Component A of a silicone based dental impression material .  
 For use by trained specialist staff.

## 8 Exposure controls / personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### **Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### **Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary.  
 When using do not eat or drink.

#### **Eye/face protection**

Suitable eye protection: goggles.

#### **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable are gloves of the following material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), CR (polychloroprene, chloroprene rubber)

#### **Skin protection**

Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Paste
Colour:	blue
Odour:	like peppermint
pH-Value:	not determined

#### **Changes in the physical state**

Melting point:	not determined
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Initial boiling point and boiling range:	>200 °C
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Flash point: >100 °C DIN 51755

#### Flammability

Solid: not applicable  
 Gas: not applicable  
 Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Ignition temperature: >300 °C

DIN 51794

#### Auto-ignition temperature

Solid: not applicable  
 Gas: not applicable  
 Decomposition temperature: >250 °C

**Oxidizing properties** Not oxidizing.

Vapour pressure:  
 (at 20 °C) <1 hPa

Density (at 20 °C): 1,0 g/cm<sup>3</sup>  
 Water solubility: insoluble

DIN 51757

**Solubility in other solvents** not determined

Partition coefficient: not determined

Viscosity / dynamic:  
 (at 23 °C) >80000 mPa•s

BROOKFIELD

Vapour density: not determined  
 Evaporation rate: not determined

#### 9.2 Other Information

Solid content: not determined

### 10 Stability and reactivity

10.1 Reactivity No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability The product is stable under storage at normal ambient temperatures

10.3 Possibility of hazardous reactions Reacts with: strong oxidising agents.

10.4 Conditions to avoid Higher temperatures advance the formation of flammable vapours, therefore don't expose the product to increased temperatures.

10.5 Incompatible materials No information available.

10.6 Hazardous decomposition products No known hazardous decomposition products.

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## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed or if inhaled. For the product itself no toxicological data are available. In products with a comparable composition a LD50 (orally, species rat) of >2000 mg/kg has been found.

#### ATEmix calculated

ATE (oral) 741,4 mg/kg; ATE (inhalative vapour) 16,31 mg/l; ATE (inhalative aerosol) 2,224 mg/l

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
93925-42-9	alkylstannosiloxane				
	oral	ATE	500 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

#### Irritation and corrosivity

Causes serious eye irritation.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (alkylstannosiloxane)

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].  
 Special hazards arising from the substance or mixture !

## 12 Ecological information

### 12.1 Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2 Persistence and degradability

The product has not been tested.

### 12.3 Bioaccumulative potential

The product has not been tested.

### 12.4 Mobility in soil

The product has not been tested.

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#### 12.5 Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6 Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 13 Disposal consideration

#### 13.1 Waste treatment methods

##### **Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.  
 Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

### 14 Transport information

#### **Land transport (ADR/RID)**

- |      |                             |   |
|------|-----------------------------|---|
| 14.1 | UN-number:                  | No dangerous good in sense of this transport regulation |
| 14.2 | UN proper shipping name:    | No dangerous good in sense of this transport regulation |
| 14.3 | Transport hazard class(es): | No dangerous good in sense of this transport regulation |
| 14.4 | Packing group:              | No dangerous good in sense of this transport regulation |

#### **Inland waterways transport (ADN)**

- |      |                             |   |
|------|-----------------------------|---|
| 14.1 | UN-number:                  | No dangerous good in sense of this transport regulation |
| 14.2 | UN proper shipping name:    | No dangerous good in sense of this transport regulation |
| 14.3 | Transport hazard class(es): | No dangerous good in sense of this transport regulation |
| 14.4 | Packing group:              | No dangerous good in sense of this transport regulation |

#### **Marine transport (IMDG)**

- |      |                             |   |
|------|-----------------------------|---|
| 14.1 | UN-number:                  | No dangerous good in sense of this transport regulation |
| 14.2 | UN proper shipping name:    | No dangerous good in sense of this transport regulation |
| 14.3 | Transport hazard class(es): | No dangerous good in sense of this transport regulation |
| 14.4 | Packing group:              | No dangerous good in sense of this transport regulation |



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#### Air transport (ICAO)

- |      |   |   |
|------|---|---|
| 14.1 | UN-number:  | No dangerous good in sense of this transport regulation |
| 14.2 | UN proper shipping name:  | No dangerous good in sense of this transport regulation |
| 14.3 | Transport hazard class(es):   | No dangerous good in sense of this transport regulation |
| 14.4 | Packing group:  | No dangerous good in sense of this transport regulation |
| 14.5 | Environmental hazards   | ENVIRONMENTALLY HAZARDOUS: no                           |
| 14.6 | Special precautions for user  | No dangerous good in sense of this transport regulation |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | No dangerous good in sense of this transport regulation |

#### 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

2010/75/EU (VOC): 0,025 % (0,246 g/l)

2004/42/EC (VOC): 0,025 % (0,246 g/l)

##### Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

##### National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 3 - highly water contaminating  
Skin resorption/Sensitization : Causes allergic hypersensitivity reactions.

- 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### 16 Other information

##### 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

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GHS: Globally Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

**Relevant R-phrases (Number and full text)**

- 10 Flammable.
- 20/22 Harmful by inhalation and if swallowed.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- 52 Harmful to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 60 May impair fertility.
- 61 May cause harm to the unborn child.
- 68 Possible risks of irreversible effects.

**Relevant H- and EUH-phrases (Number and full text)**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H302+
- H332 Harmful if swallowed or if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H341 Suspected of causing genetic defects.
- H360D May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- EUH208 Contains Menthone. May produce an allergic reaction.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*