

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.04.2019

Version number 12

Revision: 26.04.2019

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

1.1 Product identifier

Trade name: **Exhaust Sealing Putty, asbestos-free**

Article number: 80002, 80024

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

No further relevant information available.

Application of the substance / the mixture

Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

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.

Response:

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07

Signal word

Warning

Hazard-determining components of labelling:

Not applicable.

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

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- P280 Wear protective gloves / eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
- 2.3 Other hazards**
 The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
- Results of PBT and vPvB assessment**
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**· 3.2 Chemical characterisation: Mixtures**

- Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 1332-58-7 EC number: 310-127-6	Kaolin substance with a Community workplace exposure limit	25-50%
CAS: 1344-09-8 EINECS: 215-687-4 Reg.nr.: 01-2119448725-31	Silicic acid, sodium salt  Skin Irrit. 2, H315; Eye Irrit. 2, H319	12.5-25%
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure limit	1-5%

- 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**

- General information:** Immediately remove any clothing soiled by the product.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: Rinse out mouth and then drink plenty of water.
 If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media**

- Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

· 5.3 Advice for firefighters

- Protective equipment:** No special measures required.

- Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections** No dangerous substances are released.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

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:**

1332-58-7 KaolinWEL Long-term value: 2 mg/m³**56-81-5 glycerol**WEL Long-term value: 10 mg/m³

- **DNELs**

1344-09-8 Silicic acid, sodium salt

Oral	DNEL (Langzeit-wiederholt)	0.8 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	1.59 mg/kg bw/day (ARB)
		0.8 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	5.61 mg/m ³ Air (ARB)
		1.38 mg/m ³ Air (BEV)

- **PNECs**

1344-09-8 Silicic acid, sodium salt

PNEC (wässrig)	1 mg/l (MW)
	7.5 mg/l (SW)
	7.5 mg/l (WAS)

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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.
 Immediately remove all soiled and contaminated clothing
 Avoid contact with the eyes and skin.
 Keep away from foodstuffs, beverages and feed.
 Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Clean skin thoroughly immediately after handling the product.
- Respiratory protection: Not required.
- Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

- Material of gloves
 - Nitrile rubber, NBR
 - Chloroprene rubber, CR
 - Neoprene gloves
 - Butyl rubber, BR
 - Fluorocarbon rubber (Viton)

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.
- Penetration time of glove material Value for the permeation: Level ≤ 6, 480 min

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- For the permanent contact gloves made of the following materials are suitable:
 - Camatril (KCL, Art_No. 730, 731, 732, 733)
 - Camapren (KCL, Art_No. 720, 722, 726)
 - Dermatril (Art_No. 740, 741, 742)
 - Lapren (KCL, Art_No. 706)
 - Nitopren (KCL, Art_No. 717)
 - Butoject (KCL, Art_No. 897, 898)
 - Vitoject (KCL, Art_No. 890)
- As protection from splashes gloves made of the following materials are suitable:
 - Dermatril (KCL, Art_No. 740, 741, 742)
 - Camatril (KCL, 730, 731, 732, 733)
 - Camapren (KCL, Art_No. 720, 722, 726)
- Not suitable are gloves made of the following materials:
 - Leather gloves
 - Strong material gloves
- Eye protection:
 - Safety glasses

SECTION 9: Physical and chemical properties
· 9.1 Information on basic physical and chemical properties

 · General Information

 · Appearance:

Form:	Pasty
Colour:	Dark grey
Odour:	Odourless

· pH-value at 20 °C: 10

 · Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 100 °C

 · Flash point: Not applicable.

 · Auto-ignition temperature: Product is not selfigniting.

 · Explosive properties: Product does not present an explosion hazard.

 · Vapour pressure at 20 °C: 23 hPa

 · Density at 20 °C: 1.58 g/cm³

 · Solubility in / Miscibility with water: Dispersible.

 · Viscosity:

Dynamic at 20 °C:	85,000 mPas
Kinematic:	Not determined.

 · Solvent content:

Organic solvents: 0.0 %

Solids content: 49.2 %

 · **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

 · **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids.
Exothermic reaction.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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:**1332-58-7 Kaolin**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
	LC50/48h	>1,100 mg/l (daphnia magna) (Literatur)

1344-09-8 Silicic acid, sodium salt

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

56-81-5 glycerol

Oral	LD50	12,600 mg/kg (rat)
Dermal	LD50	>18,700 mg/kg (rabbit)

- 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.
- 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**12.1 Toxicity**· Aquatic toxicity:**1332-58-7 Kaolin**

EC50/48h	>1 mg/l (daphnia magna) (OECD 202)
EC50/72h	>100 mg/l (Scenedesmus subspicatus) (OECD 201)
LC50/96h	>100 mg/l (Oncorhynchus mykiss) (OECD 203)

1344-09-8 Silicic acid, sodium salt

EC50	>100 mg/l (green alge)
	>100 mg/l (daphnia magna)
LC50/96h	>100 mg/l (piscis)

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56-81-5 glycerol

EC50/24h	>10,000 mg/l (daphnia magna)
LC50/24h	>5,000 mg/l (carassius auratus)
EC5/16h	>10,000 mg/l (pseudomonas putida)
LC 0/48h	>10,000 mg/l (Leuciscus idus)
IC5/7d	>10,000 mg/l (Scenedesmus quadricauda)
EC50/16h	>10,000 mg/l (pseudomonas putida)
LC50/96h	>10,000 mg/l (Leuciscus idus)

- **12.2 Persistence and degradability**

No further relevant information available.

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

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

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Smaller quantities can be disposed of with household waste.

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

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· 14.6 Special precautions for user	Not applicable.
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· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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· UN "Model Regulation":	Void
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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture** No further relevant information available.
- Labelling according to Regulation (EC) No 1272/2008** GHS label elements
- Directive 2012/18/EU**
- Named dangerous substances - ANNEX I** None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- National regulations:**
- Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- VOC EU** 0.0 g/l
- 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.
H319 Causes serious eye irritation.
- Recommended restriction of use** refer to Technical Data Sheet (TDS)
- Department issuing SDS:** Laboratory
- Contact:** Dieter Zimmermann
- Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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.** Adaptation in accordance with REACH directive 1907/2006/EC