

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.06.2022

Version number 2 (replaces version 1)

Revision: 20.06.2022

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

1.1 Product identifier

Trade name: **ARA Durasil SK**
SDB-Nr. 001-018-00109

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

Silicate sealing
Adhesives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: ARA Chemie GmbH
Weiershagener Straße 18
51674 Wiehl

Tel.: +49 (0) 2262-71717-0
e-mail: msds@ara-chemie.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Informationszentrale gegen Vergiftungen
Universitätsklinikum Bonn
Tel. 0228-19240

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 GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms

Void

Signal word

Void

Hazard-determining components of labelling:

Not applicable.

Hazard statements

Void

Precautionary statements

P271 Use only outdoors or in a well-ventilated area.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
Contains trimethoxy(methyl)silane. May produce an allergic reaction.
Safety data sheet available on request.

Additional information:

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Siliconelastomer

Dangerous components:

CAS: 1185-55-3	trimethoxy(methyl)silane	Flam. Liq. 2, H225	<1%
EINECS: 214-685-0		Skin Sens. 1B, H317	
Reg.nr.: 01-2119517436-40			

Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air.
No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Rinse with warm water.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
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**

Allergic reactions

· **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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

- Carbon monoxide (CO)
- Nitrogen oxides (NO_x)

· **5.3 Advice for firefighters**

- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation
Wear protective clothing.
Particular danger of slipping on leaked/spilled product.

· **6.2 Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **6.4 Reference to other sections**

Dispose of the material collected according to regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 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:

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.
 Store away from oxidising agents.

Further information about storage conditions:

Protect from frost.

Storage class:

10

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

1185-55-3 trimethoxy(methyl)silane

Oral	DNEL (Kurzzeit-akut)	0.26 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.26 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	0.38 mg/kg bw/day (ARB)
		0.3 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.38 mg/kg bw/day (ARB)
		0.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	25.6 mg/m ³ Air (ARB)
		6.25 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	25.6 mg/m ³ Air (ARB)
		6.25 mg/m ³ Air (BEV)

PNECs

1185-55-3 trimethoxy(methyl)silane

PNEC (wässrig)	>6.9 mg/l (KA)
	≥0.13 mg/l (MW)
	≥1.3 mg/l (SW)
PNEC (fest)	≥0.17 mg/kg Trockengew (BO)
	≥0.11 mg/kg Trockengew (MWS)
	≥1.1 mg/kg Trockengew (SWS)

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls

No further data; see item 7.

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- 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.
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Do not eat, drink, smoke or sniff while working.
 Do not inhale gases / fumes / aerosols.
- Respiratory protection:

Not necessary if room is well-ventilated.
- Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves

Butyl rubber, BR
 Chloroprene rubber, CR
 Nitrile rubber, NBR
 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.
 As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- 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.
 Value for the permeation: Level \leq 480 min
- For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR
- As protection from splashes gloves made of the following materials are suitable:

Butoject (KCL, Art_No. 897, 898)
 Dermatril (KCL, Art_No. 740, 741, 742)
- Not suitable are gloves made of the following materials:

Strong material gloves
 Leather gloves
- 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
- Colour: Whitish
- Odour: no characteristic odor
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Undetermined.
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: >100 °C
- Decomposition temperature: Not determined.
- pH Not determined.

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· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure:</u>	Not determined.
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.51 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· **9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Paste
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

· Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
	Void

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· Substances and mixtures, which emit flammable gases in contact with water

· Oxidising liquids Void

· Oxidising solids Void

· Organic peroxides Void

· Corrosive to metals Void

· Desensitised explosives Void

· Desensitised explosives Void

· Desensitised explosives Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:** Small quantities of formaldehyde may be formed

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:

1185-55-3 trimethoxy(methyl)silane

Oral	LD50	11,685 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	51.6 mg/l (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1185-55-3 trimethoxy(methyl)silane

ErC50/72h >3.6 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

NOEC >3.6 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

NOELR/28d ≥10 mg/l (daphnia magna)

EC10 >100 mg/l (BES) (OECD 209)

EC50/48h >122 mg/l (daphnia magna) (OECD 202)

LC50/96h >110 mg/l (Oncorhynchus mykiss) (OECD 203)

· 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.

· 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

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
 Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

· Recommendation:

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

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

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· 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 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**

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- 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 H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
- Department issuing SDS: Laboratory
- 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 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)
 - DNEL: Derived No-Effect Level (UK REACH)
 - PNEC: Predicted No-Effect Concentration (UK REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Skin Sens. 1B: Skin sensitisation – Category 1B
- * Data compared to the previous version altered. Adaptation in accordance with UK REACH directive 1907/2006/EC
- Datasheet created on: 20.06.2022
- Replaces version of: First version