

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.02.2022

Version number 6 (replaces version 5)

Revision: 07.02.2022

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

1.1 Product identifier

Trade name: **ARA Durasil E 811**
SDB-Nr. 001-003-00164

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

Construction chemicals
Silicate sealing

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:

see manufacturer / supplier

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 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

Additional information:

Products treated with biocide OIT (CAS 26530-20-1).
Safety data sheet available on request.

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: Sealant
Mixture: consisting of the following components.

Dangerous components:

17689-77-9	Triacetoxethylsilane	Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302 EUH014	0-5%
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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: Take affected persons out of danger area and lay down.

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- | | |
|--|---|
| <ul style="list-style-type: none"> · <u>After inhalation:</u> · <u>After skin contact:</u>
 · <u>After eye contact:</u> · <u>After swallowing:</u>
 · <u>4.2 Most important symptoms and effects, both acute and delayed</u> · <u>4.3 Indication of any immediate medical attention and special treatment needed</u> | <p>Personal protection for the First Aider.
 Seek medical treatment.
 Supply fresh air; consult doctor in case of complaints.
 Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
 If skin irritation continues, consult a doctor.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 Rinse out mouth and then drink plenty of water.
 Seek medical treatment.</p> <p>Allergic reactions</p> <p>No further relevant information available.</p> |
|--|---|

SECTION 5: Firefighting measures

- | | |
|---|--|
| <ul style="list-style-type: none"> · <u>5.1 Extinguishing media</u> · <u>Suitable extinguishing agents:</u>
 · <u>For safety reasons unsuitable extinguishing agents:</u> · <u>5.2 Special hazards arising from the substance or mixture</u>
 · <u>5.3 Advice for firefighters</u> · <u>Protective equipment:</u>
 · <u>Additional information</u> | <p>CO₂, powder or water spray. Fight larger fire with alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.</p> <p>Water with full jet</p> <p>Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
 Carbon monoxide (CO)
 Nitrogen oxides (NO_x)
 Siliziumoxide
 Formaldehyde</p> <p>Wear self-contained respiratory protective device.
 Do not inhale explosion gases or combustion gases.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Cool endangered receptacles with water spray.</p> |
|---|--|

SECTION 6: Accidental release measures

- | | |
|---|--|
| <ul style="list-style-type: none"> · <u>6.1 Personal precautions, protective equipment and emergency procedures</u>
 · <u>6.2 Environmental precautions:</u>
 · <u>6.3 Methods and material for containment and cleaning up:</u>
 · <u>6.4 Reference to other sections</u> | <p>Ensure adequate ventilation
 Wear protective clothing.
 Product forms slippery surface when combined with water.</p> <p>Prevent from spreading (e.g. by damming-in or oil barriers).
 Keep contaminated washing water and dispose of appropriately.
 Do not allow to enter sewers/ surface or ground water.</p> <p>Allow to solidify. Pick up mechanically.
 Send for recovery or disposal in suitable receptacles.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</p> <p>See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.</p> |
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.

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.
 Prevent any seepage into the ground.

Information about storage in one common storage facility:

VCI-Konzept für die Zusammenlagerung von Chemikalien beachten.
 Store away from foodstuffs.
 Store away from oxidising agents.

Further information about storage conditions:

Protect from frost.
 Protect from heat and direct sunlight.

Storage class:

12

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

17689-77-9 Triacetoxylethylsilane

Inhalative	DNEL (Kurzzeit-akut)	65 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	4 mg/m ³ Air (ARB)
		10.8 mg/m ³ Air (BEV)

PNECs

17689-77-9 Triacetoxylethylsilane

PNEC (wässrig)	1 mg/l (KA)
	0.02 mg/l (MW)
	0.2 mg/l (SW)
PNEC (fest)	0.031 mg/kg Trockengew (BO)
	0.016 mg/kg Trockengew (MWS)
	0.16 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.

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.
 Avoid contact with the eyes and skin.
 Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Wash hands before breaks and at the end of work.

Respiratory protection:

Not necessary if room is well-ventilated.

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- Hand protection

Short term filter device:
Filter A/P2

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 determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
Value for the permeation: Level \leq 6;480min
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- 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:

Nitrile rubber, NBR
Butoject (KCL, Art_No. 897, 898)
Camapren (KCL, Art_No. 720, 722, 726)
Butyl rubber, BR
- Not suitable are gloves made of the following materials:

Strong material gloves
Leather gloves
- Eye/face protection

 Tightly sealed goggles
- Body protection:

Impervious protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- Colour: Different according to colouring
- Odour: vinegary
- 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: Not applicable.
- Auto-ignition temperature: Product is not selfigniting.
- Decomposition temperature: Not determined.

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· <u>pH at 20 °C</u>	<7
· <u>Viscosity:</u>	
· <u>Kinematic viscosity at 20 °C</u>	>20.5 mm ² /s
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Soluble.
· <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>	1-1.04 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>	Pasty
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	>440 °C
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	0 %
· <u>Solids content:</u>	100.0 %
· <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
	Void

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- Self-heating substances and mixtures
- Void
- Substances and mixtures, which emit flammable gases in contact with water
- Void
- Oxidising liquids
- Void
- Oxidising solids
- Void
- Organic peroxides
- Void
- Corrosive to metals
- Void
- Desensitised explosives
- Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under recommended transport or storage conditions
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid** Heat, flames and other sources of ignition
moisture
- **10.5 Incompatible materials:** strong oxidizing agents
bases
Acids
- **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:

ATE (Acute Toxicity Estimates)

Oral LD50 >7,600-38,000 mg/kg (rat)

17689-77-9 Triacetoxylethylsilane

Oral LD50 380 mg/kg (rat) (OECD 401)

- Primary irritant effect: Do not get in eyes, on skin, or on clothing.
- 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.

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- 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.
- **11.2 Information on other hazards**

- Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity:

17689-77-9 Triacetoxymethylsilane

IC50/72h	73 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	62 mg/l (daphnia magna)
LC50/96h	251 mg/l (Danio rerio.)

- **12.2 Persistence and degradability** Not easily biodegradable
- **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.

- European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 17	waste containing silicones other than those mentioned in 07 02 16
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

- Uncleaned packaging:
- Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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

SECTION 14: Transport information

· 14.1 UN number or ID number · <u>ADR, IMDG, IATA</u>	Void
· 14.2 UN proper shipping name · <u>ADR, IMDG, IATA</u>	Void
· 14.3 Transport hazard class(es) · <u>ADR, ADN, IMDG, IATA</u> · <u>Class</u>	Void
· 14.4 Packing group · <u>ADR, IMDG, IATA</u>	Void
· 14.5 Environmental hazards: · <u>Marine pollutant:</u>	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· <u>Transport/Additional information:</u>	Not dangerous according to the above specifications.
· <u>UN "Model Regulation":</u>	Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · <u>Directive 2012/18/EU</u> · <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· <u>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</u>	None of the ingredients is listed.
· <u>REGULATION (EU) 2019/1148</u>	
· <u>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</u>	None of the ingredients is listed.
· <u>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</u>	None of the ingredients is listed.
· <u>Regulation (EC) No 273/2004 on drug precursors</u>	None of the ingredients is listed.
· <u>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</u>	None of the ingredients is listed.
· <u>National regulations:</u>	
· <u>Information about limitation of use:</u>	Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning juveniles must be observed.
· <u>Waterhazard class:</u>	Water hazard class 1 (Self-assessment): slightly hazardous for water.

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· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 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.

· Department issuing SDS: Laboratory

· Date of previous version: 07.02.2022

· Version number of previous version: 5

· 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 (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

EU