

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 4 (replaces version 3)

Revision: 02.09.2022

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

#### 1.1 Product identifier

Trade name: **Durasil E 711**  
**SDB-Nr. 001-047-00100**

#### 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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

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

##### Hazard pictograms

Void

##### Signal word

Void

##### Hazard-determining components of labelling:

4,5-dichloro-2-octyl-2H-isothiazol-3-one  
Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan

##### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

##### Additional information:

Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one, Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan. May produce an allergic reaction.

#### 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.

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· <u>Dangerous components:</u>		
64742-46-7	Distillates (petroleum), hydrotreated middle Asp. Tox. 1, H304	<10%
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, 2% aromatics Asp. Tox. 1, H304 EUH066	<10%
556-67-2	octamethylcyclotetrasiloxane Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 PBT; vPvB	<1%
64359-81-5	4,5-dichloro-2-octyl-2H-isothiazol-3-one Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 ATE: LD50 oral: 567 mg/kg LC50/4 h inhalative: 0.16 mg/l Specific concentration limits: Skin Irrit. 2; H315: C ≥ 0.025 % Eye Irrit. 2; H319: C ≥ 0.025 % Skin Sens. 1A; H317: C ≥ 0.0015 %	<1%
68928-76-7	Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan STOT RE 1, H372 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 Aquatic Chronic 3, H412	<1%

· 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.  
Personal protection for the First Aider.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with 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.

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

Allergic reactions  
Headache  
Nausea  
Coughing  
Fever

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

No specific Antidot known.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.

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

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
 Carbon monoxide (CO)  
 Nitrogen oxides (NOx)  
 Siliziumoxide

· **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.

· **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:**

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).

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

### 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.

· Storage class:

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· **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:

**556-67-2 octamethylcyclotetrasiloxane**

TWA	Long-term value: 10 mg/m <sup>3</sup> , 10* ppm
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### 68928-76-7 Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan

STEL Long-term value: 0.2 mg/m<sup>3</sup>TWA Long-term value: 0.1 mg/m<sup>3</sup>· DNELs

### 556-67-2 octamethylcyclotetrasiloxane

Oral DNEL (Kurzzeit-akut) 3.7 mg/kg bw/day (BEV)

DNEL (Langzeit-wiederholt) 3.7 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 73 mg/m<sup>3</sup> Air (ARB)13 mg/m<sup>3</sup> Air (BEV)DNEL (Langzeit-wiederholt) 73 mg/m<sup>3</sup> Air (ARB)13 mg/m<sup>3</sup> Air (BEV)· PNECs

### 556-67-2 octamethylcyclotetrasiloxane

PNEC (wässrig) 10 mg/l (KA)

0.00015 mg/l (MW)

0.0015 mg/l (SW)

PNEC (fest) 0.54 mg/kg Trockengew (BO)

0.3 mg/kg Trockengew (MWS)

3 mg/kg Trockengew (SWS)

### 64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one

PNEC (wässrig) 0.064 mg/l (KA)

0.0000068 mg/l (MW)

0.000034 mg/l (SW)

PNEC (fest) 0.062 mg/kg Trockengew (BO)

0.9934 mg/kg Trockengew (MWS)

0.41 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:

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

· Respiratory protection:

Not necessary if room is well-ventilated.

Short term filter device:

Filter A/P2

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

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

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- 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, 480 min  
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
  - Not suitable are gloves made of the following materials: Strong material gloves  
Leather gloves  
Nitrile rubber, NBR
  - Eye/face protection Goggles recommended during refilling
  - Body protection: Impervious protective clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

- General Information
- Colour: According to product specification
- Odour: Acidic
- 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.
- Decomposition temperature: Not determined.
- pH Not determined.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure: Not determined.
- Density and/or relative density
- Density at 20 °C: 1.04 g/cm<sup>3</sup>
- Relative density Not determined.
- Vapour density Not determined.

#### · 9.2 Other information

- Appearance:
- Form: Paste
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Solvent content:
- Solids content: 88.3 %

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· Change in condition  
 · Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives

Void

· Flammable gases

Void

· Aerosols

Void

· Oxidising gases

Void

· Gases under pressure

Void

· Flammable liquids

Void

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· 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

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### 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** 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:**

#### 64742-46-7 Distillates (petroleum), hydrotreated middle

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.266 mg/l (rat)

#### Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, 2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	>5 mg/l (rat)

#### 556-67-2 octamethylcyclotetrasiloxane

Oral	LD50	>4,800 mg/kg (rat)
Dermal	LD50	>2,400 mg/kg (rat)
	LD50	2,500 µl/kg (rabbit)
Inhalative	LC50/4h	2,975 mg/m <sup>3</sup> (rat)
	LC50/4 h	36 mg/l (rat)

#### 64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one

Oral	LD50	567 mg/kg (ATE)
		1,636 mg/kg (rat)
	NOAEL	20 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	0.16 mg/l (ATE)
		0.26 mg/l (rat)

#### 68928-76-7 Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan

Oral	LD50	894 mg/kg (rat) (OECD Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD Prüfrichtlinie 402)

- **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.
- **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.

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- Aspiration hazard Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- Endocrine disrupting properties

556-67-2 octamethylcyclotetrasiloxane

List II, III

### SECTION 12: Ecological information

#### · 12.1 Toxicity

- Aquatic toxicity:

##### **64742-46-7 Distillates (petroleum), hydrotreated middle**

EL50/48h	210 mg/l (daphnia magna)
EL50/72h	>10,000 mg/l (Skeletonema costatum ( Kieselalge))
LL50/96h	1,028 mg/l (Scophthalmus maximus (Steinbutt))

##### **Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, 2% aromatics**

EC50/48h	>3,193 mg/l (daphnia magna)
EC50/72h	>3,198 mg/l (Skeletonema costatum ( Kieselalge))
LC50/96h	>1,028 mg/l (piscis)

##### **556-67-2 octamethylcyclotetrasiloxane**

EC50/96h	>0.022 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	>0.015 mg/l (daphnia magna)
NOEC/21d	>0.0079 mg/l (daphnia magna)
EC50/72h	>0.022 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>0.022 mg/l (Oncorhynchus mykiss)

##### **64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one**

EC50/48h	0.0057 mg/l (daphnia magna)
ErC50/72h	0.077 mg/l (Pseudokirchneriella subcapitata)
NOELR/21d	0.00063 mg/l (daphnia magna)
LC50/96h	0.014 mg/l (lem) 0.0027 mg/l (Oncorhynchus mykiss)

##### **68928-76-7 Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannan**

EC50/48h	39 mg/l (daphnia magna) (OECD-prüfrichtlinie 202)
ErC50/72h	7.6 mg/l (Scenedesmus subspicatus) (OECD-Prüfrichtlinie 201)
NOELR/72h	1.1 mg/l (Scenedesmus subspicatus)
EC10	5.7 mg/l (Desmodesmus subspicatus) (OECD-Prüfrichtlinie 201)
LC50/96h	>100 mg/l (Danio rerio.) (OECD prüfrichtlinie 203)

#### · 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

For information on endocrine disrupting properties see section 11.

#### · 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 2 (German Regulation) (Self-assessment): hazardous for water

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### 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.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · 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, IMDG, IATA

Void

#### · **14.2 UN proper shipping name**

##### · ADR, 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

#### · **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.

##### · REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3, 70

##### · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

##### · REGULATION (EU) 2019/1148

##### · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

##### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

· Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

· 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:

02.09.2022

· Version number of previous version:

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· 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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· Replaces version of:

25.03.2020