

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.11.2019

Version number 3

Revision: 12.11.2019

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

### 1.1 Product identifier

Trade name: **ARA DURASIL® M Plus**  
**SDB-Nr.:00108-001-035**

### 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  
 +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 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:

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 Chemical characterisation: Mixtures

Description: Sealant  
 Mixture: consisting of the following components.  
 water


### Dangerous components:

CAS: 58190-57-1

EC number: 611-631-1

Reg.nr.: 01-2119982962-22-0000

Ethyl tris (acetoximo) silane

 STOT RE 2, H373

0-&lt;10%

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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.  
Seek medical treatment.
- 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: Rinse out mouth and then drink plenty of water.  
Seek medical treatment.

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

### · For safety reasons unsuitable extinguishing agents:

Water with full jet

### · 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 (NO<sub>x</sub>)
- Siliziumoxide
- Formaldehyde

### · 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.

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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: 11
- **7.3 Specific end use(s)** For application profile please refer to applicable section within the "Technical Data Sheet"

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

### · DNELs

#### 58190-57-1 Ethyl tris (acetonoximo) silane

Oral	DNEL (Langzeit-wiederholt)	0.03 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	0.059 mg/kg bw/day (ARB)
		0.03 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.419 mg/m <sup>3</sup> Air (ARB)
		0.103 mg/m <sup>3</sup> Air (BEV)

### · PNECs

#### 58190-57-1 Ethyl tris (acetonoximo) silane

PNEC (wässrig)	2.4 mg/l (KA)
	0.24 mg/l (SW)
PNEC (fest)	205 mg/kg Trockengew (MWS)
	2,047 mg/kg Trockengew (SWS)

- 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.
- Respiratory protection: Not necessary if room is well-ventilated.

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- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <u>Protection of hands:</u></li> <li>· <u>Material of gloves</u></li> <li>· <u>Penetration time of glove material</u></li> <li>· <u>For the permanent contact gloves made of the following materials are suitable:</u></li> <li>· <u>As protection from splashes gloves made of the following materials are suitable:</u></li> <li>· <u>Not suitable are gloves made of the following materials:</u></li> <li>· <u>Eye protection:</u></li> <li>· <u>Body protection:</u></li> </ul> | <p>Short term filter device:<br/>Filter A/P2</p> <p>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</p> <p>Butyl rubber, BR<br/>Chloroprene rubber, CR<br/>Nitrile rubber, NBR</p> <p>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.</p> <p>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.<br/>Value for the permeation: Level ≤ 6;480min<br/>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p>Butyl rubber, BR</p> <p>Nitrile rubber, NBR<br/>Butoject (KCL, Art_No. 897, 898)<br/>Camapren (KCL, Art_No. 720, 722, 726)<br/>Butyl rubber, BR</p> <p>Strong material gloves<br/>Leather gloves</p> <p>Goggles recommended during refilling<br/>Impervious protective clothing</p> |
|---|--|

## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form:

Paste

Colour:

According to product specification

#### · Odour:

no characteristic odor

#### · Odour threshold:

Not determined.

#### · pH-value:

Not determined.

#### · Change in condition

Melting point/freezing point:

<-40 °C

Initial boiling point and boiling range: Undetermined.

#### · Flash point:

Not applicable.

#### · Flammability (solid, gas):

Not applicable.

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· <u>Decomposition temperature:</u>	Not determined.
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Explosion limits:</u>	
<u>Lower:</u>	Not determined.
<u>Upper:</u>	Not determined.
· <u>Vapour pressure:</u>	Not determined.
· <u>Density at 20 °C:</u>	1.03-1.24 g/cm <sup>3</sup>
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.
· <u>Evaporation rate</u>	Not determined.
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient: n-octanol/water:</u>	Not determined.
· <u>Viscosity:</u>	
<u>Dynamic:</u>	Not determined.
<u>Kinematic at 40 °C:</u>	>20.5 mm <sup>2</sup> /s
· <b><u>9.2 Other information</u></b>	No further relevant information available.

## 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 toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

### 58190-57-1 Ethyl tris (acetoximo) silane

Oral	LD50	2,500 mg/kg (rat)
	NOAEL	11.87 mg/kg (rat)
Dermal	LD50	2,500 mg/kg (rat)

- 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.
- 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.

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- 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:

#### **58190-57-1 Ethyl tris (acetoximo) silane**

EC50/48h	678.73 mg/l (daphnia magna) (OECD-Prüfrichtlinie 202)
NOEC	62.34 mg/kg (Selenastrum capricornutum) (OECD-Prüfrichtlinie 201)
EC50/72h	315.36 mg/l (Selenastrum capricornutum) (OECD-Prüfrichtlinie 201)
LC50/96h	696.76 mg/l (Pimephales promelas) (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.

#### · 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

#### · 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

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
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging

#### · Uncleaned packaging:

#### · Recommendation:

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

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## SECTION 14: Transport information

· <b>14.1 UN-Number</b> · ADR, IMDG, IATA	Void
· <b>14.2 UN proper shipping name</b> · ADR, IMDG, IATA	Void
· <b>14.3 Transport hazard class(es)</b> · ADR, ADN, IMDG, IATA · Class	Void
· <b>14.4 Packing group</b> · ADR, IMDG, IATA	Void
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	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 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.
- 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      H373 May cause damage to organs through prolonged or repeated exposure.
- 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

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- \* Data compared to the previous version altered.
- Datasheet created on:
- Replaces version of:

Adaptation in accordance with REACH directive 1907/2006/EC

12.11.2019

06.08.2019