

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9 (replaces version 8)

Revision: 02.12.2021

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

1.1 Product identifier

Trade name: **ARA DURASIL® 794 plus**
SDB-Nr. 001-026-00148

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:

refer to manufacturer/supplier
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:

Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.
Safety data sheet available on request.

2.3 Other hazards

Product hydrolyzed to form ethanol (CAS-No. 64-17-5). Ethanol is classified with physical hazards and health hazards. The rate of hydrolysis and the relevance for the hazard potential of the product are highly dependent on the specific conditions.

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Polydimethylsiloxane and adjuvant + crosslinker
Mixture: consisting of the following components.

Dangerous components:

CAS: 64742-46-7 EINECS: 265-148-2 Reg.nr.: 01-2119552497-29	Dearomatized hydrocarbon mixture Asp. Tox. 1, H304	1-5%
CAS: 128446-60-6	3-aminopropyl (methyl) silsesquioxane, ethoxy-terminated Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%

(Contd. on page 2)

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according to 1907/2006/EC, Article 31

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Trade name: ARA DURASIL® 794 plus
SDB-Nr. 001-026-00148

(Contd. of page 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.
Seek medical treatment.
Personal protection for the First Aider.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: 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.
- 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.
Do not induce vomiting; call for medical help immediately.

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

Allergic reactions
Dizziness

· 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 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_x)
Siliziumoxide
Hydrocarbons

· 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.
Product forms slippery surface when combined with water.

· 6.2 Environmental precautions:

Keep contaminated washing water and dispose of appropriately.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

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SDB-Nr. 001-026-00148

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
- **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.
Extractor required at the object.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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 humidity and water.
Store receptacle in a well ventilated area.
- **Storage class:** 12
- **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

- **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.
- **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.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:** Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
filter type: ABEK
- **Hand protection** Preventive skin protection by use of skin-protecting agents is recommended.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 02.12.2021

Trade name: ARA DURASIL® 794 plus
SDB-Nr. 001-026-00148

(Contd. of page 3)

- 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
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 ≤ 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
Butyl rubber, BR
 - Not suitable are gloves made of the following materials: Strong material gloves
Leather gloves
 - Eye/face protection Safety glasses
 - 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: Alcohol-like
- 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.
- pH Not applicable.
Not determined.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic at 20 °C: 800,000 mPas
- Solubility
- water: Insoluble.
- Partition coefficient n-octanol/water (log value) Not determined.

(Contd. on page 5)

GB

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Version number 9 (replaces version 8)

Revision: 02.12.2021

Trade name: ARA DURASIL® 794 plus
SDB-Nr. 001-026-00148

(Contd. of page 4)

· Vapour pressure:	Not determined.
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.01-1.03 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>Ignition temperature:</u>	>400 °C
· <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
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
	Void

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 9 (replaces version 8)

Revision: 02.12.2021

Trade name: ARA DURASIL® 794 plus
SDB-Nr. 001-026-00148

(Contd. of page 5)

- | | |
|----------------------------------|------|
| · <u>Oxidising solids</u> | Void |
| · <u>Organic peroxides</u> | Void |
| · <u>Corrosive to metals</u> | Void |
| · <u>Desensitised explosives</u> | Void |

SECTION 10: Stability and reactivity

- | | |
|--|--|
| · 10.1 Reactivity | Stable under recommended transport or storage conditions |
| · 10.2 Chemical stability | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used and stored according to specifications. |
| · 10.3 Possibility of hazardous reactions | Decomposes with water, acids and alkalis. |
| · 10.4 Conditions to avoid | Heat, flames and other sources of ignition
moisture |
| · 10.5 Incompatible materials: | Water
bases
Acids |
| · 10.6 Hazardous decomposition products: | Reacts with water forming ethanol.
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 | |
| · <u>Acute toxicity</u> | Based on available data, the classification criteria are not met. |

· LD/LC50 values relevant for classification:

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

- | | |
|--|---|
| · <u>Primary irritant effect:</u> | Do not get in eyes, on skin, or on clothing. |
| · <u>Skin corrosion/irritation</u> | Based on available data, the classification criteria are not met. |
| · <u>Serious eye damage/irritation</u> | Based on available data, the classification criteria are not met. |
| · <u>Respiratory or skin sensitisation</u> | Based on available data, the classification criteria are not met. |
| · <u>Germ cell mutagenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-repeated exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>Aspiration hazard</u> | Based on available data, the classification criteria are not met. |

· Additional toxicological information:

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 7)

Safety data sheet

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Trade name: ARA DURASIL® 794 plus
SDB-Nr. 001-026-00148

(Contd. of page 6)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

EC50/48h	>100 mg/l (daphnia magna) (Elutionstest)
ErC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
NOEC	>1 mg/l (Navicula pelliculosa)
	>1 mg/l (daphnia magna)
	>1 mg/l (Oncorhynchus mykiss)
LC50/96h	>10-<100 mg/l (pimephales promelas) (Elutionstest)

· 12.2 Persistence and degradability

Not easily biodegradable
 Silicone content: Not biodegradable. Deposition by sedimentation.

· 12.3 Bioaccumulative potential

No adverse effect

· 12.4 Mobility in soil

Siliconantei: Insoluble in water

· 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

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic 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

· 14.4 Packing group

· ADR, IMDG, IATA

Void

· 14.5 Environmental hazards:

· Marine pollutant:

No

(Contd. on page 8)

Safety data sheet

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SDB-Nr. 001-026-00148

(Contd. of page 7)

- | | |
|---|--|
| · 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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· 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 1 (Self-assessment): slightly 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.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

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SDB-Nr. 001-026-00148

(Contd. of page 8)

· Relevant phrases

H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

 · Department issuing SDS:
 · Abbreviations and acronyms:

Laboratory
 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)
 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
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

· Datasheet created on:

01.12.2021

· Replaces version of:

17.08.2021