

TYPE S1 / W1 / W01 **SUMMER / WINTER / RAPID** SILICATE RESIN BASE **SAFETY DATA SHEET**

PART A

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name TYPE S1 / W1 / W01 - SUMMER / WINTER / RAPID

SILICATE RESIN BASE - PART A

Revision Date 08-2020

Product Code Type S1 / W1 / W01 - Summer / Winter / Rapid Silicate Resin Base

Company S1E, 300 S. Dayton St., Davison, MI 48423

Company Contact Tony Dipzinski Company Phone 810-412-4740

Emergency Domestic Shipments and to Canada: 1-800-633-8253

International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 (CLP):

Hazard classes/categories

Skin Irrit. 2 Eye Dam. 1

Labeling according to Regulation (EC) No 1272/2008 (CLP):

Signal Word Danger



Hazard statements

H315 Causes skin irritation

H318 Causes serious eye damage



Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Hazard determining component(s) for labelling

Silicid acid, sodium salt (CAS: 1344-09-8, EINECS: 215-687-4).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization:

Name	EC-Nr.	CAS-Nr.	REACH Reg. Nr.	Content (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)	
					Hazard categories	H-phrase(s)
Silicic acid, sodium salt (Molverhältnis Na ₂ O : SiO ₂ = 1 :> 1.6 - < 2.6)	215-687-	1344-09-8	01- 211944872 5-31	25–50	Skin Irrit. 2 Eye Dam. 1	H315 H318
Water	231-791-	7732-18-5	_	50-75	_	_

4. FIRST AID MEASURE

General information No special measures necessary
If inhaled No special measures necessary

On skin contact In case of contact with skin, wash off immediately with plenty of

water. Do not allow the product to dry on the skin. Consult a doctor

if skin irritation persists.

On contact with eyes Immediately wash affected eyes for at least 15 minutes under

running water with eyelids held open, consult an eye specialist.

On ingestion Immediately rinse mouth and drink plenty of water, do not induce

vomiting, seek medical attention immediately.

Most important symptoms and effects, both acute and delayed

No data.

Indication of any immediate medical attention and special treatment needed

Hints for the physician This product contains alkali silicates

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Product itself is non-combustible; adapt fire extinguishing

measures to surrounding areas.

Non-suitable extinguishing media Compatible with all usual extinguishing media.



Special hazards arising from the substance or mixture

None known.

Advice for firefighter

Special protective equipment: In case of combustion use a suitable breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not allow to enter drains or waterways.

Methods and material for containment and cleaning up

Take up with absrobent material (e.g. sand, kieselguhr, universal binder). Rinse away rest with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Observe the usual precautions for handling chemicals. Open and handle container with care.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels keep only in the original container.

Further information on storage conditions Protect from frost. Recommended storage temperature value 5 - 45°C.

VCI storage category 12 non-combustible liquids

Storage stability Under correct storing conditions the product is

stable for at least 12 months.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

No exposure limit value known.

Exposure controls

General protective and hygiene measures Observe the usual precautions when handling chemicals. Wash

hands before breaks and after work. Do not eat, drink or smoke

during work time.

Occupational exposure controls

Respiratory protection Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, Filter B

Hand protection Gloves (alkali-resistant)

Appropriate material: Latex

KCL Lapren 706 / 0.6 mm / 480 min.

Eye protection Safety glasses with side protection shield. Skin protection Clothing as usual in the chemical industry.



9. PHYSICAL & CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance liquid, clear, colourless to slightly yellow

Odor odourless
Odor threshold no data
pH-value 13-14
Melting point/freezing point no data
Boiling range appr. 100°C
Flash point no data
Evaporation rate no data

Flammability (solid, gaseous)
Ignitable, explosive range
Vapour pressure
Vapour density
no data
no data

Density appr. 1,55 kg/l (at 20°C)
Solubility completely miscible
Partition coefficient n-octanol/water not applicable

Self-ignition temperature no data

Decomposition temperature no data

Viscosity appr. 600 mPa.s (at 20°C)

Explosive properties no data
Oxidising properties no data

Other information Not applicable.

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Conditions to avoid Protect from frost

Materials to avoid Acids

Hazardous decomposition products No hazardous decomposition products known

11. TOXICOLOGICAL INFORMATION

Information is related to the product, data are used as cross reference.

Acute toxicity

Acute oral toxicity Remarks: The toxicological data shown are those obtained from

tests on products of similar composition.

Reference substance Slilicic acid, sodium salt (Molar ratio Na20 : SiO2 = 1 : 2.0; 40-50%)

Species rat

LD₅₀ > 2000 mg/kg Source data of supplier

Reference substance Slilicic acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : 3.2-3.4; 35-40%)

Species rat

 LD_{50} > 2000 mg/kg Source data of supplier

Reference substance Silicic acid, potassium salt (Molar ratio K2O : SiO2 = 1 : 3.9-4.0; 28-30%)

Species rat

 LD_{50} > 2000 mg/kg Source data of supplier



Remarks The poisonous effect of the product is caused by its alkalinity and

not by substance-specific systemic characteristics.

Irritant/corrosive effects

Irritant effect on skin irritant

Irritant effect on eyes irritant - risk of serious damage to eyes

Sensitization non-sensitizing

Effects after repeated or prolonged exposition (subacute, subchronic, cronic).

Experience in practice Irritating effects on the skin and mucous membrane. Risk of

serious damage to eyes.

Other information When handled appropriately, even after long years of experience

with this product, no adverse health effects are known.

12. ECOLOGICAL INFORMATION

Information is related to the product, data are used as cross reference.

Fish toxicity

Remarks Ecotoxicological data are taken from a similar product of the same type.

Reference substance Slilicic acid, sodium salt (Molar ratio Na20 : SiO2 = 1 : 3.36; 35%)

 $\begin{array}{lll} \text{Species} & \text{Brachidanio rerio} \\ \text{LC}_{50} & \text{> 2000 mg/l} \\ \end{array}$

Duration of exposure 96 h

Source data of supplier

Reference substance Silicic acid, potassium salt (Molar ratio K2O : SiO2 = 1 : 3.9-4.0; 29%)

Species Leuciscus idus LCO > 500 mg/l

Duration of exposure 48 h

Source data of supplier

Remarks The ecotoxic effect of the product is mainly due to its alkalinity

Daphnia toxicity

Remarks Ecotoxicological data are taken from a similar product of the same type.

Reference substance Slilicia acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : 3.2; 35%)

Species Daphnia magna ECO > 2000 mg/l

Duration of exposure 48 h

Source data of supplier

Reference substance Silicic acid, potassium salt (Molar ratio K2O : SiO2 = 1 : 3.9-4.0; 29%)

Species Daphnia magna
ECO > 500 mg/l

Duration of exposure 24 h

Source data of supplier

Remarks The ecotoxic effect of the product is mainly due to its alkalinity



Bacteria toxicity

Remarks Ecotoxicological data are taken from a similar product of the same type.

Reference substance Slilicic acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : 3.36; 35%)

Species Pseudomonas putida

ECO > 1000 mg/l

Duration of exposure 48 h

Source data of supplier

Remarks The ecotoxic effect of the product is mainly due to its alkalinity

Biodegradability

Remarks Inorganic product, cannot be eliminated from the water by

biological purification processes.

Behaviour in sewers (waste treatment plants):

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants. When low concentrations are discharged correctly into adapted biological sewage traetment plants, disturbance of the degradation activity of activated sludge is not likely.

13. DISPOSAL CONSIDERATIONS

Disposal recommendations for the product

EWC waste code: 06 02 05 other bases.

Dilution and neutralization with acid. After solidification (e.g. as CaSiO3 precipitate), landfill in accordance with local authorities. Re-use without reprocessing as long as not solidified.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

14. TRANSPORT INFORMATION

Land transport (ADR/RID)Not classified as dangerous according to transport regulationsSea transport (IMDG/GGVSee)Not classified as dangerous according to transport regulationsAir transportNot classified as dangerous according to transport regulations

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislations specific for the substance or mixture Water Hazard Class (Germany): WGK 1

Chemical Safety Assessment

In accordance with REACH Chemical Safety Assessment has not been carried out for the product.

16. OTHER INFORMATION

The information given corresponds with our actual knowledge and experience. This information is meant to describe our product in view of possible safety requirements.

Abbreviations and acronyms:

H- Phrases

H315 Causes skin irritation

H318 Causes serious eye damage



P- Phrases

P262 Do not get in eyes, on skin, or on clothing

P280 Wear protective gloves/protective clothing/eye protection/face

protection

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contaminated clothing. Rinse skin with water/shower.

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rinsing.

Skin irritation

Hazard classes

Skin Irrit.

Eye Dam. Serious eye damage

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.