

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024


Version number 23 (replaces version 22)

Revision: 09.02.2024

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

- **1.1 Product identifier**
- **Trade name** **BRAWO Silicate FAST - Komponente A**
- **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** Synthetic resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** BRAWO SYSTEMS GmbH
Blechhammerweg 13-17
67659 Kaiserslautern
Deutschland/Germany
- Tel: +49(0)631-205 61 100
- **Informing department:** Technische Abteilung
msds@brawoliner.de
- **1.4 Emergency telephone number:** +49 (0) 61 31 - 19 240 (Giftnotruf Mainz)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**

GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:** Silicic acid, sodium salt
- **Hazard statements** H315 Causes skin irritation.
H318 Causes serious eye damage.
- **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.
 P280 Wear protective gloves / eye protection / face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 1)

P310 *Immediately call a POISON CENTER/doctor.*
P321 *Specific treatment (see on this label).*
P362+P364 *Take off contaminated clothing and wash it before reuse.*
P332+P313 *If skin irritation occurs: Get medical advice/attention.*

· **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:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 1344-09-8	Silicic acid, sodium salt	Eye Dam. 1, H318; Skin Irrit. 2, H315	10-30%
CAS: 1344-09-8	Silicic acid, sodium salt	Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-30%
CAS: 107-21-1 EINECS: 203-473-3	ethane-1,2-diol	STOT RE 2, H373; Acute Tox. 4, H302	<5%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.
CAS: 1344-09-8

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation** Supply fresh air.
In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** *Instantly wash with water and soap and rinse thoroughly. Instantly rinse with water.*

· **After eye contact** *Seek medical treatment. Rinse opened eye for several minutes under running water. Then consult a doctor.*

· **After swallowing** *Rinse out mouth and then drink plenty of water. Seek medical treatment.*

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*

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

No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** *No special measures required.*

GB

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 2)

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with much water.
- **6.3 Methods and material for containment and cleaning up:** Dispose of the material collected according to regulations. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class** 10

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· **Components with critical values that require monitoring at the workplace:**

CAS: 107-21-1 ethane-1,2-diol

WEL	Short-term value: 104** mg/m ³ , 40** ppm
	Long-term value: 10* 52** mg/m ³ , 20** ppm
	Sk *particulate **vapour

· **DNELs**

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	DNEL	0.8 mg/kg bw/Tag (ArL)
Dermal	DNEL	1.59 mg/kg bw/day (ArL)
Inhalative	DNEL	5.61 mg/m ³ (ArL)

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name BRAWO Silicate FAST - Komponente A

(Contd. of page 3)

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	DNEL	0.8 mg/kg bw/Tag (ArL)
Dermal	DNEL	1.59 mg/kg bw/day (ArL)
Inhalative	DNEL	5.61 mg/m ³ (ArL)

CAS: 107-21-1 ethane-1,2-diol

Dermal	DNEL	106 mg/kg bw/day (ArL)
Inhalative	DNEL	35 mg/m ³ (ArL)

· PNECs

CAS: 1344-09-8 Silicic acid, sodium salt

PNEC	348 mg/l (Kla)
	1 mg/l (Mew)
	7.5 mg/l (Freshwater)

CAS: 1344-09-8 Silicic acid, sodium salt

PNEC	348 mg/l (Kla)
	1 mg/l (Mew)
	7.5 mg/l (Freshwater)

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls

No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution or when application is performed at confined area with adequate mechanical ventilation meeting local authority requirements, use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Hand protection

Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

· 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 exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

· Eye/face protection

Tightly sealed safety glasses.

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

· **Body protection:** Protective work clothing.

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	Whitish
· Smell:	Weak, characteristic
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	>100 °C (CAS: 1344-09-8 Silicic acid, sodium salt)
· Flash point:	111 °C
· pH at 20 °C	11
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
· Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.32 g/cm ³

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.

· 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

(Contd. on page 6)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 5)

· **Desensitised explosives**

Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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 that are relevant for classification:**

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	LD50	3400 mg/kg (rat)
Dermal	LD50	4640 mg/kg (rabbit)
		>5000 mg/kg (rat)

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	LD50	3400 mg/kg (rat)
Dermal	LD50	4640 mg/kg (rabbit)
		>5000 mg/kg (rat)

CAS: 107-21-1 ethane-1,2-diol

Oral	LD50	4000 mg/kg (rat)
	LDL0	1600 mg/kg (Workers)
Dermal	LD50	>3500 mg/kg (mouse)
		10600 mg/kg (rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 6)

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 1344-09-8 Silicic acid, sodium salt

EC50/72h >345.4 mg/l (*Desmodesmus subspicatus*)

LC50/96h 1108 mg/l (*Danio rerio*)

260 mg/l (*Oncorhynchus mykiss*)

>100 mg/l (fish)

EC50 >100 mg/l (Bak)

>100 mg/l (algae)

>100 mg/l (*Daphnien*)

>100 mg/l (*Daphnia magna*)

EC50/48h 1700 mg/l (*Daphnia magna*)

CAS: 1344-09-8 Silicic acid, sodium salt

EC50/72h >345.4 mg/l (*Desmodesmus subspicatus*)

LC50/96h 1108 mg/l (*Danio rerio*)

260 mg/l (*Oncorhynchus mykiss*)

>100 mg/l (fish)

EC50 >100 mg/l (Bak)

>100 mg/l (algae)

>100 mg/l (*Daphnien*)

>100 mg/l (*Daphnia magna*)

EC50/48h 1700 mg/l (*Daphnia magna*)

CAS: 107-21-1 ethane-1,2-diol

LC50/96h 72860 mg/l (*Pimephales promelas*)

EC50/48h >100 mg/l (*Daphnia magna*)

EC50/96h 6500-13000 mg/l (*Selenastrum capricornutum*)

NOEC 8590 mg/l (*Ceriodaphnia dubia*)

15380 mg/l (*Pimephales promelas*)

· **12.2 Persistence and degradability**

No further relevant information available.

· **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.

(Contd. on page 8)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 7)

- **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 undiluted product or large quantities of it to reach ground water, water bodies or sewage system.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

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 |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** *No further relevant information available.*

(Contd. on page 9)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 23 (replaces version 22)

Revision: 09.02.2024

Trade name **BRAWO Silicate FAST - Komponente A**

(Contd. of page 8)

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Relevant phrases**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing data specification sheet:**

Environment protection department.

· **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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**