

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name ZEOLEX® 23
Chemical Name Silicic acid, aluminum sodium salt
CAS-No. 1344-00-9
REACH Registration No.:: if available listed in Chapter. 3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications Anticaking agent
identified Flow-promoting agent.

1.3. Details of the supplier of the safety data sheet

Company

Telephone
Telefax
Email address

1.4. Emergency telephone number

Emergency information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis Labelling not required according to EU-CLP Ordinance (1272/2008).

2.3. Other hazards

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.1. Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• Silicic acid, aluminum sodium salt			
CAS-No.	1344-00-9	EC-No.	215-684-8
Remarks	Not a hazardous substance or mixture.		

Texts of H phrases, see in Chapter 16

SAFETY DATA SHEET

	comparable product Based on available data, the classification criteria are not met.
Mutagenicity assessment	no evidence of mutagenic effects
Carcinogenicity	No evidence that cancer may be caused.
Toxicity to reproduction	no evidence of reproductiontoxic properties
Human experience	Toxic effects from handling this product are unknown as yet.
Further information	An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 12: Ecological information

12.1. Toxicity

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration. LC0 : >= 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration.
Toxicity to algae	IC 50 Desmodesmus subspicatus (green algae): > 10000 mg/l / 72 h Method: OECD 201 The reported toxic effects relate to the nominal concentration.
Toxicity to bacteria	EC 10 Pseudomonas putida: 330 mg/l / 16 h Test substance: Zeolites Method: DEV, DIN 38412, T. 8 The reported toxic effects relate to the nominal concentration.

12.2. Persistence and degradability

Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
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12.3. Bioaccumulative potential

Bioaccumulation	Not to be expected.
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12.4. Mobility in soil

Mobility	No remarkable mobility in soil is to be expected.
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12.5. Results of PBT and vPvB assessment

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

12.6. Other adverse effects

Further Information	An Expert Judgment stated that no classification is necessary based on present knowledge.
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SAFETY DATA SHEET

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known

Stable under normal conditions.

Product will not undergo hazardous polymerization.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological tests are available on the product.

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 comparable product Based on available data, the classification criteria are not met.
Acute inhalation toxicity	LC0 Rat: 0,69 mg/l / 4 h Method: analogous OECD method No deaths occurred. comparable product Based on available data, the classification criteria are not met.
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg comparable product Based on available data, the classification criteria are not met.
Skin irritation	Rabbit not irritating comparable product Based on available data, the classification criteria are not met.
Eye irritation	Rabbit not irritating comparable product Based on available data, the classification criteria are not met.
Sensitization	not known
Repeated dose toxicity	Oral Rat Testing period: 14 d NOAEL: 7500 mg/kg Feeding experiments comparable product Based on available data, the classification criteria are not met.
Assessment of STOT single exposure	no evidence for hazardous properties
Assessment of STOT repeat exposure	no evidence for hazardous properties
Risk of aspiration toxicity	No aspiration toxicity classification
Genotoxicity in vitro	Ames test none mutagenic / genotoxic effects Method: analogous OECD method comparable product Based on available data, the classification criteria are not met.
Genotoxicity in vivo	none mutagenic / genotoxic effects

SAFETY DATA SHEET

	(suspension)
Melting point/range	approx. 1700 °C
Boiling point/range	not determined
Flash point	not applicable Solid
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	not applicable
Vapour density	not applicable
Density	approx. 2,1 g/cm ³ (20 °C) Method: DIN / ISO 787 / 10
Water solubility	hardly soluble
Partition coefficient n-octanol/water	not applicable
Autoinflammability	not applicable
Thermal decomposition	> 1700 °C
Viscosity, dynamic	not applicable solid
Explosiveness	Not to be expected in view of the structure
Oxidizing properties	Not to be expected in view of the structure
9.2. Other information	
Ignition temperature	not determined
Minimum ignition energy	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions are known if properly handled and stored.

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
If necessary: Local ventilation.
- 7.2. Conditions for safe storage, including any incompatibilities**
Advice on protection against fire and explosion
Take precautionary measures against static discharges.
Storage
Keep in a dry, cool place.
- 7.3. Specific end use(s)**

Applications; see Section 1.
No further information available
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SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
- 8.2. Exposure controls**
Personal protective equipment
Respiratory protection
No special protective equipment required.
If dust occurs: Dust mask with P2 particle filter
Hand protection
Wear protective gloves made of the following materials: material, rubber, plastics.
The material thickness and rupture time data do not apply to non-solute solids / dusts.
Eye protection
Safety glasses with side-shields
If dust occurs: basket-shaped glasses
Skin and body protection
No particular measures required.
Hygiene measures
When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.
To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.
Wash contaminated clothing before re-use.
Protective measures
Handle in accordance with good industrial hygiene and safety practice.
If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.
If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance		
Form	powder	
Colour	white	
physical state	solid	
Odour	odourless	
Odour threshold:	not applicable	
pH	6 - 8	(50 g / l) (20 °C)
	Method:	DIN / ISO 787 / 9

SAFETY DATA SHEET

3.2. Mixtures

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

In case product dust is released:
Possible discomfort: cough, sneezing
Move victims into fresh air.

Skin contact

Wash off with plenty of water and soap.

Eye contact

Possible discomfort is due to foreign substance effect.
Rinse thoroughly with plenty of water keeping eyelid open.
In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Clean mouth with water and drink afterwards plenty of water.
After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

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

Symptoms

None known

Hazards

None known

4.3. Indication of any immediate medical attention and special treatment needed

No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder.
Adapt fire-extinguishing measures to surroundings
Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.
Ensure there are sufficient retaining facilities for water used to extinguish fire.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

6.2. Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

SAFETY DATA SHEET

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

Uncleaned packaging

Offer rinsed packaging material to local recycling facilities.

Other countries: observe the national regulations.

Waste Key Number

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1. UN number:	—
14.2. UN proper shipping name:	—
14.3. Transport hazard class(es):	—
14.4. Packing group:	—
14.5. Environmental hazards:	—
14.6. Special precautions for user:	No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Major Accident Hazard Legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. listing: not applicable
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15.2. Chemical safety assessment

Chemical safety assessment	No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.
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SECTION 16: Other information

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

SAFETY DATA SHEET

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative

SAFETY DATA SHEET

VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization