This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



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

### **1.1. Product identifier**

Product Name:	Mega 327 Silikat Innenfarbe weiss
Article number:	025270540514

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

Product categories [PC]:	PC9 - Coatings and paints, fillers, putties, thinners
Sector of uses [SU]:	SU19 - Building and construction work

### 1.3. Details of the supplier of the safety data sheet

Supplier:	MEGA eG Fangdieckstrasse 45 D - 22547 Hamburg Telefon: +49 40/ 54004-0 Telefax: +49 40/ 54004-9 www.mega.de
Responsibility Statement:	Department productsector paints and coatings
E-mail address	Telephone: 040 54004-528 technik@mega.de

### **1.4. Emergency telephone number**

Emergency Telephone:

+49 40 / 54004 - 528 (Mo. - Tue. 7.15 - 16.30 Uhr, Fr. bis 12.00 Uhr)

Emergency Telephone - §45 - (EC)	1272/2008
Europe	112
Austria	+43 1 406 43 43 (Giftinformationszentrale)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. **2.3. Other hazards** 

Causes mild skin irritation.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

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Not applicable

### 3.2 Mixtures

Chemical name	CAS No	EC No (EU Index No)	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Potassium silicate (MR > 2.6)	1312-76-1	215-199-1	01-2119456888-17	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	3 - < 5

### Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Potassium silicate (MR > 2.6) 1312-76-1	5700	5000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### Full text of H- and EUH-phrases: see section 16

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:	Remove to fresh air.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion:	Rinse mouth.

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

Symptoms: Prolonged contact may cause redness and irritation.

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

Note to physicians: Treat symptomatically.

# **SECTION 5: Firefighting measures**

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# 5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture	
Unsuitable extinguishing media:	Do not scatter spilled material with high pressure water streams.
Large Fire:	CAUTION: Use of water spray when fighting fire may be inefficient.
Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the	No information available.
chemical:	

## 5.3. Advice for firefighters

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
precautions for fire-fighters:	gear. Use personal protection equipment.

# **SECTION 6:** Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:	Ensure adequate ventilation.

For emergency responders: Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions: See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards:	Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling



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Advice on safe handling:	Ensure adequate ventilation.
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe stora	ge, including any incompatibilities
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place.
7.3. Specific end use(s)	

Other information:

No information available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Exposure Limits:	
Biological occupational exposure	This product, as supplied, does not contain any hazardous materials with biological limits
limits:	established by the region specific regulatory bodies

Derived No Effect Level (DNEL): No information available

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Potassium silicate (MR > 2.6)	5.61 mg/m <sup>3</sup>			

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Potassium silicate (MR > 2.6)	1.49 mg/kg bw/day			

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Potassium silicate (MR > 2.6)	1.38 mg/m <sup>3</sup>			

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Potassium silicate (MR > 2.6)	0.74 mg/kg bw/day			

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Potassium silicate (MR > 2.6)	0.74 mg/kg bw/day			

Predicted No Effect Concentration (PNEC): No information available

Chemical name	Potassium silicate (MR > 2.6) CAS: 1312-76-1
Freshwater	7.5 mg/L
Marine water	1 mg/L
Freshwater (intermittent release)	7.5 mg/L
Sewage treatment	348 mg/L

### 8.2. Exposure controls

Engineering controls:

None under normal use conditions.

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Personal protective equipment:	The usua	I precautionary measures for the handli	ng of chemicals have to be observed.
Eye/face protection:	Wear safe	ty glasses with side shields (or goggles)	
Hand protection:	Wear suita	able gloves.	
PPE - Glove material		Glove thickness	Break through time
PPE - Glove material NBR (Nitrile rubber)		Glove thickness 0.4 mm	Break through time >=480 min.
	Wear suita		<u> </u>
NBR (Nitrile rubber)	No protect	0.4 mm	>=480 min.
NBR (Nitrile rubber) Skin and body protection:	No protect exceeded	0.4 mm able protective clothing. ive equipment is needed under normal u	>=480 min. use conditions. If exposure limits are nd evacuation may be required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance Color Odor	disper white chara	rsion cteristic				
Melting point / melting range Boiling point / boiling range Flammability Decomposition temperature Flash point Autoignition temperature	>	107	°C	Conditions	Method	Remarks Not established Not established not relevant Not established None known
Lower explosive limit Upper explosion limit Vapor pressure Density	~	1.438	g/cm³	20 °C		not relevant not relevant Not established
Water solubility pH pH (as aqueous solution) Partition coefficient		10 - 11		20 °C		Miscible Not applicable Not established
Odor threshold Relative density Evaporation rate Relative vapor density Particle Size	no da	ata available ta available				Not established Not established Not established
Autoignition temperature Lower explosive limit Upper explosion limit Vapor pressure Density Water solubility pH pH (as aqueous solution) Partition coefficient Kinematic viscosity Odor threshold Relative density Evaporation rate Relative vapor density	no da	10 - 11 ata available	g/cm³			None known not relevant not relevant Not establishe Miscible Not applicable Not establishe Not establishe Not establishe

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### 9.2. Other information

Bulk density:	no data available
Softening point	No information available
Molecular weight	No information available

#### 9.2.1. Information with regard to physical hazard classes:

Explosive properties	Not an explosive
Oxidizing properties	Not oxidising.

9.2.2. Other safety characteristics: No information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity:

No information available.

# **10.2. Chemical stability**

Stability:	Stable under normal conditions.
Explosion data: Sensitivity to mechanical impact: Sensitivity to static discharge:	None. None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

### **10.4. Conditions to avoid**

Conditions to avoid: None known based on information supplied.

### **10.5.** Incompatible materials

Incompatible materials: None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

# SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:	The product has not been tested
Inhalation:	Specific test data for the substance or mixture is not available.

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Eye	contact:	Specific test data for the substance or mixture is not available.
Skin	contact:	Specific test data for the substance or mixture is not available. Causes mild skin irritation.
Inge	stion:	Specific test data for the substance or mixture is not available.
<u>Symptor</u>	ns related to the physical, ch	emical and toxicological characteristics:
~		

Symptoms:

Prolonged contact may cause redness and irritation.

#### Numerical measures of toxicity:

Acute toxicity: No information available

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
Potassium silicate (MR > 2.6) 1312-76-1	Oral LD50	Rat	5700 mg/kg	

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation:	May cause skin irritation.
Serious eye damage/eye irritation:	No information available.
Respiratory or skin sensitization:	No information available.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Aspiration hazard:	No information available.

### **11.2.** Information on other hazards

### 11.2.1. Endocrine disrupting properties

No information available.

### 11.2.2. Other information

No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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Ecotoxicity:

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Potassium silicate (MR > 2.6)	LC50	Lepomis macrochirus	3185 mg/L	96 h	
1312-76-1					

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Potassium silicate (MR > 2.6) 1312-76-1	EC50	Daphnia magna	216 mg/L	96 h	

### 12.2. Persistence and degradability

Persistence and degradability:

### 12.3. Bioaccumulative potential

Bioaccumulation: No information available

### 12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Potassium silicate (MR > 2.6)	The substance is not PBT / vPvB
1312-76-1	PBT assessment does not apply

### 12.6. Endocrine disrupting properties.

No information available.

### 12.7. Other adverse effects.

No information available.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products:	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging:	Do not reuse empty containers.

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Waste codes / waste designations according to EWC / AVV: 08 01 12 (waste paint and varnish other than those mentioned in 08 01 11)

### **SECTION 14: Transport information**

### 14.1. UN number

ADR:	Not regulated
RID:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

### 14.2 UN proper shipping name

ADR:	Not regulated
RID:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

## 14.3. Transport hazard class(es)

Not regulated
Not regulated
Not regulated
Not regulated

### 14.4. Packing group

ADR:	Not regulated
RID:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

### 14.5. Environmental hazards

ADR:	
RID:	
IMDG:	Not regulated
IATA:	C C

# 14.6. Special precautions for user

ADR:	Not regulated
Special Provisions:	None
RID:	Not regulated
Special Provisions:	None
IMDG:	Not regulated
Special Provisions:	None
IATA:	Not regulated
Special Provisions:	None

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

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# SECTION 15: Regulatory information

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

#### **European Union:**

Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work: Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

Authorizations and/or restrictions on use:

 This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

0%

0 g/L

Not applicable

Persistent Organic Pollutants: (EC) 2019/1021

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content: acc. reg. 2010/75/EG: acc. reg. 2004/42/EG (Decopaint):

648/2004/ EU (DetVo): National regulations:

Denmark:

Chemical name	Denmark - MAL
Potassium silicate (MR > 2.6)	0 m3/10 g substance MAL factor
1312-76-1	>=5 % by weight [4]
	>=1.0 - 5.0 % by weight [3]

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Potassium silicate (MR > 2.6)	1	1316
1312-76-1		
TA Luft (German Air Pollution Control Regulation	on):	
total dust incl. fine dust (digit 5.2.1):	40 - 45%	
inorg. subst. dust (digit 5.2.2) class III:	5 - 10%	
org. substances (Ziffer 5.2.5):	< 5%	
Storage class (TRGS 510): LGK12 - Non-combustible liquids		

ıg (

Netherlands:

Water contaminating class (Netherlands): B (4)

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#### Austria:

Flammable Liquids Regulations, VbF:

Not regulated

#### Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended) Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)

Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended) Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

#### Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 0 %

#### Hungary:

Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures and activities Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.) Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) "A" and "B" of the European Agreement on Road Transport

#### International Inventories:

Does not comply
Does not comply

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

NZIOC - New Zealand Inventory of Chemicals

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

Chemical Safety Report:

No information available

# **SECTION 16: Other information**

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Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation Legend: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route) AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany) **BCF: Bio-Concentration Factor** BOD(5): Biochemical oxygen demand (within 5 days) CAS: Chemical Abstract Service CLP: Classification, Labelling and Packaging CMR: Carcinogenic, Mutagenic, toxic for Reproduction DIN: German Standards Institute / German industrial norm **DNEL: Derived No Effect Level** DOC: Dissolved organic carbon EAK/ AVV: European waste catalogue/ waste directory-regulation EC50: Effective Concentration 50% ECHA: European Chemical Agency EINECS: European Inventory of Existing Commercial Chemical Substances GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals IATA: International Air Transport Association IC50: Inhibition Concentration 50% IMDG: International Maritime Dangerous Goods Code LC50: Lethal Concentration 50% - LD50: Lethal dose 50% MAK: Treshold limit values Germany NLP: No Longer Polymers NOAEC: No Observed Adverse Effect Concentration NOAEL: No Observed Adverse Effect Level OECD: Organization for Economic Cooperation and Development PBT: persistent, bioaccumulative, toxic PC: Product category PNEC: Predicted No Effect Concentration REACh: Registration, Evaluation and Authorization of Chemicals RID:Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer) STEL: Short-term Exposure Limit STP: Sewage treatment plant SVHC: Substance of Very High Concern TLV: Threshold Limit Value TWA: Time Weighted Average **UN: United Nations** VOC: Volatile Organic Compounds vPvB: very persistent, very bioaccumulative Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Ceiling: Maximum limit value \* Skin designation

Classification procedure

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Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 06-Sep-2021 This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

#### **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.

**End of Safety Data Sheet**