

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH)

## GRENA KLEBEPASTE

Creation date	26. January 2016	Revision no.	
Date of revision		Version	1

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

- 1.1. Product identifier**  
substance / mixture  
GRENA KLEBEPASTE  
mixture  
Number  
Other names of the mixture  
Mixture of aluminum silicates and water glass.
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture  
Glue / SU3 / Industrial use: The use of substances as such or preparations at industrial locations  
Not recommended use of the mixture  
not available
- 1.3. Details of the supplier of the safety data sheet**  
**Distributor**  
Name or trade name  
GRENA, a.s.  
Address  
ČSA 540, Veselí nad Lužnicí, 391 81  
Czech Republic  
Telephone  
+420 381 549 111  
Fax  
+420 381 581 071  
E-mail  
grena@grena.cz  
Web address  
http://www.grena.cz
- Competent person responsible for the safety data sheet**  
Name  
Ing. Lukáš Šmehlík  
E-mail  
smehlik@grena.cz
- 1.4. Emergency telephone number**  
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Skin Irrit. 2, H315  
Eye Irrit. 2, H319

#### The classification of the mixture according to Directive 1999/45/EC

The mixture is classified as dangerous.

Irritant: Xi; R 36/38

Full text of all classifications, H-phrases and R-phrases is given in the section 16.

#### The most serious adverse physico-chemical effects

Unknown

#### The most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation.

- 2.2. Label elements**  
**Warning symbol**



#### Signal word

Warning

#### Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

### Instructions for safe handling

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): 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.

### 2.3. Other hazards

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of aluminum silicates and water glass.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Name of the substance	Content in % weight	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1344-09-8 ES: 215-687-4 Registration number: 01-2119448725-31-XXXX	Sodium silicate watter glas	20-30	Xi; R 36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	

The full text of all standard phrases and guidelines is specified in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that respiratory pathways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Note: If the mixture sticks to the skin and cannot be removed with water and cleaning products or edible oil, do not use force and leave for specialized treatment.

#### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible. Note: If the product sticks to the skin of the eyelids and cannot be removed using water, do not use force and leave for specialized treatment.

#### Ingestion

DO NOT INDUCE VOMITING - even the inducing of vomiting by itself may cause complications (inhalation of the substance in respiratory pathways and lungs, for example, in detergents and other substances that produce foam or causing mechanical damage to the mucous membrane of the pharynx). If possible, give a small amount of activated carbon (1-2 crushed tablets). For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the substance or mixture. Provide medical treatment if the person has any health problems.

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

#### Inhalation

Possible irritation of respiratory pathways, cough, headache.

#### Skin contact

Painful reddening, irritation.

#### Eye contact

Not expected.

#### Ingestion

Irritation, nausea.

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

Symptomatic treatment.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use fire fighting measures that suit the environment.

##### Unsuitable extinguishing media

Not relevant.

#### 5.2. Special hazards arising from the substance or mixture

No special hazards arising from the substance or mixture

#### 5.3. Advice for firefighters

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### SECTION 6: Accidental release measures

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

The mixture is nonflammable. Provide sufficient ventilation. Use gloves in case of prolonged contact. Follow the instructions in Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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

Spilled mixture should be covered with suitable (nonflammable) absorbing material (sand, kieselguhr, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the mixture, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the mixture, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

#### 6.4. Reference to other sections

7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the highest permissible concentration in the occupational environment. The mixture should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Electrostatic charge may form during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Protect from frost. Do not use light alloy containers.

Suitable material for containers and conduit: steel or stainless steel.

Storage class

12 - Other non-combustible liquids

##### The specific requirements or rules relating to the substance/mixture

Do not store together with acids.

#### 7.3. Specific end use(s)

Auxiliary product for foundry industry.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

none

#### 8.2. Exposure controls

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye and face protection

Protective goggles or face shield (based on the nature of the work performed).

##### Skin protection

Hand protection: Protective gloves resistant against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams for skin protection, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures. Contaminated skin should be washed thoroughly.

Avoid close or long term contact with the skin. Protective gloves of nitrile or butyl rubber.

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### Respiratory protection

Not required.

### Thermal hazard

not available

### Restriction of the environment exposure

Observe usual measures for protection of the environment, see Section 6.2.

### More information

Dirty or stained clothes immediately undress. The usual precautionary measures for handling of chemicals.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Pasty
Physical state	liquid at 20°C
Color	Yellowish
Odour	Nearly odourless
Odour threshold	data not available
pH	11 - 12 (undiluted)
Melting point/freezing point	data not available
Initial boiling point and boiling range	100 °C ((water))
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
Flammability limits	data not available
Explosive limits	data not available
Vapour pressure	23 mBar at 20 °C
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	Partly soluble
solubility in fats	void
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	66 - 74 Pa*s
Explosive properties	Product is not explosive.
Oxidising properties	data not available

### 9.2. Other information

Density	data not available
Auto-ignition temperature	data not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

Under normal conditions, the mixture is stable.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known

### 10.4. Conditions to avoid

None (water is vaporizing)

### 10.5. Incompatible materials

No incompatible materials known

### 10.6. Hazardous decomposition products

No dangerous decomposition products known

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture. Harmful effect because of the alkalinity of the product possible.

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### Corrosion/skin irritation

Irritant for skin and mucous membranes.

##### Serious eye damage / eye irritation

Strong irritant with the danger of severe eye injury.

##### Respiratory / skin sensitization

Based on available data, the classification criteria are not met.

##### Germ cells 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.

##### Toxicity for specific target organ - single exposure

Based on available data, the classification criteria are not met.

##### Toxicity for specific target organ - repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity

No further relevant information available.

After neutralization no harmful effect for the environment.

#### 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

The mixture is not classified as PBT or vPvB.

#### 12.6. Other adverse effects

Do not allow product to reach ground water, lakes, rivers or sewage system.

### SECTION 13: Disposal considerations

Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

#### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to an authorised person for waste removal (specialized company) authorised for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

##### Legislation of waste

Council Directive 75/442/EEC on waste, as last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

### SECTION 14: Transport information

#### 14.1. UN number

not available

#### 14.2. UN proper shipping name

not available

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### 14.3. Transport hazard class(es)

not available

### 14.4. Packing group

not available

### 14.5. Environmental hazards

Do not allow to escape into drains, surface and ground water. Water hazard class: 1 weakly threatens water quality (self classification according to WwWwS from the date 17.05.99). Prevent discharge into surface water or sewer without prior dilution event. neutralization. After neutralization does not have any harmful effects on the environment.

### 14.6. Special precautions for user

Reference in Sections 4 to 8.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No further relevant information available

#### Additional information

According to the usual regulation is not a dangerous product.

## SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out

#### More information

Do not allow product to reach sewage system or water bodies

## 16. SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

### Guidelines for safe handling used in the safety data sheet

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): 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.

### List of R-phrases used in the safety data sheet

R 36/38 Irritating to eyes and skin.

### Other important information about safety of human health

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road  
BCF Bioconcentration Factor  
CAS Unique Numeric Identifier used in chemistry for chemical substances  
CLP Classification, Labelling and Packaging  
DNEL Derived no-effect level  
EC50 Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
Ems Emergency plan  
ErC50 Environmental Release category  
ES Identification code for each substance listed in EINECS

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IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50 % blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Transport
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
Log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
MFAG	First Aid Manual
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent ,Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted no-effect concentration
REACH	Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC) No.1907/2006)
RID	Agreement on the transport of dangerous goods by rail
UN	Four-digit code reflecting the characteristics of substances or mixtures in transport
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about the sources of data used to compile the Safety Data Sheet

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Publication of "Zásady pro poskytování první pomoci při expozici chemickým látkám" (doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.