

Safety data sheet

Page 1/4

According law No. 157/1998 Coll., on chemicals and chemical preparations and Decree of the government No.258/2001Coll .
Date of issue: 28.1.2003 Date of revision: 12.2.2003

Name of preparation: **GRENA KLEBEPASTE SB**
1720030

1. Identification of the substance or preparation and manufacturer or importer

1.1. Substance/preparation description:

Mixture of alum silicates and water glass (sodium silicate).

Number CAS:

Number ES (EINECS): Other names of substance:

Importer's identification:

Business name: Grena a.s.

Seat: Tř. CSA 540, 381 91 Veselí nad Lužnicí

Identification number: 46678832

Telephone: 420381549113

Fax: 420381581071

E-mail: gena@gena.cz

Emergency telephone number: 602395535 (Řezníček Petr)

Toxicologic information centre:

Praha, Na Bojišti 1, tel. 224919293 (non stop), 224915402

2. Information on substance or preparation composition

Product contains these dangerous substances:

Terminology	CAS	ES	Index number	Content (Weight in %)	Classification R-phrases S-phrases
Sodium silicate	1344-09-8	-	-	20-25	Xi R38-41

Other data: Auxiliary means in foundry industry.

3. Substance or preparation hazards identification

The most momentous unpleasant impacts on a human being health when using the substance/preparation:

Xi irritant

R-phrases:

R38 irritates skin

R41 danger of serious eye damage

S-phrases:

S26 By eye contact, rinse immediately with water and seek medical advice

S37/39 Wear suitable protective gloves and goggles or facial shield.

GRENAKlebepaste SB

The most momentous unpleasant impacts on environment when using the substance/preparation:

See chapter 6 and 12

Substance/preparation possible wrong usage :

Other data: Classification corresponds with currently valid EU documents , but it is amended from company resources and expert literature.

4. First-aid instructions

4.1. General instructions:

4.2. By inhalation: No special measures are necessary

4.3. By skin contact: Wash with warm water.

4.4. By eye contact: Rinse eyes a few minutes under running water with open eyelids. Consult doctor.

4.5. By ingestion: Rinse mouth and drink up a glass of water by sips. Immediately call the doctor.

5. Fire-fighting measures

The substance is not combustible, Fire-fighting substances select according the ambient character.

5.1. Suitable fire-fighting substances:

5.2. Unsuitable fire-fighting substances:

5.3. Special danger:

5.4. Special protective means for firemen:

5.5. Other data:

6. Accidental release measures

6.1. Safety measures for personnel protection: Any special measures are not necessary.

6.2. Safety measures for environment protection: To prevent penetration to sewage and top water.

6.3. Recommended cleaning and deactivation methods: To dispose with soaking materials (sand, silicate sand, acid absorbents and universal absorbing substances).

6.4. Other data:

7. Handling and storage

7.1. Handling instructions:

Any special measures are not necessary.

7.2. Instructions to prevent fire or explosion:

The preparation is not combustible.

Any special measures are not necessary.

7.3. Storage instructions:

Do not use containers made of light metals.

Suitable materials for storage dishes and piping: steel or high-grade steel

Do not storage together with acids. Protect against frost.

Storage class: Class according VCI concept: LGK 12

VbF- class: not considered

8. Exposure controls and personnel protection

8.1. Technical measures:

No other data, see point 7.

8.2. Checking parameters:

The product does not content corresponding quantity of substances, the limit concentration of which would be necessary the subject of monitoring.

Č.CAS	Chemical name	PEL-P	NPK-P	Unit
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PEL-P...permissible exposure limit

NPK-P...maximum permissible concentration

Klebepaste SB

8.3. Personal protective means:

Respiratory system protection: Not requested.

Eye protection: not specified

Hands protection: Protective nitrile or butyl rubber gloves, find out and follow the exact time of gloves infiltration given by gloves manufacturer

Skin protection: not specified

8.4. Other data:

Follow common regulations for handling of chemicals. Prevent of longer and intensive contact with skin.

9. Physical and chemical properties

State(at 20°C):	paste	Odour(aroma):	Nearly without odour
Colour:	yellowish	pH (at 20 °C):	11 - 12
Melting point(°C):	-		
Boiling point (°C):	over 100 (water)		
Flash point (°C):	none		
Ignition point (°C):	Not considered		
Explosiveness:	Preparation does not represent explosion risk.		
Explosiveness limits: upper limit (% volume):	-		
Explosiveness limits: lower limit (% volume.):	-		
Vapour tension (at 20°C):	23 mbar (water)		
Density (at 20 °C):	Approx. 1,8 g/cm ³		
Dynamic viscosity (at 20 °C):	Approx. 70 Pas		
Solubility(at 20 °C): at water	Partial soluble		

10. Stability and reactivity

Conditions under which the product is stable: Stabile (water evaporation).
Conditions which should be avoided: any
Substances and materials which should not be in contact with a product: any

11. Toxicological information

Acute toxicity

- LD50, oral, sewer rat (mg.kg-1):
- LD50, dermal, sewer rat or rabbit (mg.kg-1):
- LC50, inhaling, sewer rat, for aerosols or particles (mg.kg-1):
- LC50, inhaling, sewer rat, for gases and vapours (mg.kg-1):

Prime irritating impact: Skin: Irritate skin and mucosa.

Eyes: Strong irritating impacts with danger of prime eyes damage.

Sub chronic - chronic toxicity: not specified Sensitization: Sensitization impacts are not specified. Carcinogenicity: Carcinogenic impacts are not specified.

Mutagenicity: Mutagenic impacts are not specified.

Toxicity for reproduction: According available data, it is not toxic for reproduction. Human being experience: Danger of eyes damage, especially within long-time handling. Animal tests: See acute toxicity, sensitization impacts and mutagenicity. Other data: Without other data

12. Ecological information

Acute toxicity for aquatic organism:

	Effective concentration
- LC50, 96 hrs, fishes:	
- EC50, 24 hrs, daphnia :	
- EC50, bacteria, Ps.putida:	

Decomposability: not specified

Behaviour in cleaning treatment equipments: not specified

Toxicity for other environment: Weakly threatens water quality, grade 1 (own scale). Prevent from release to top water or to sewer collector without previous thinning or neutralization.

After neutralization, it does not have any harmful impacts environment.

CHSK: not specified BSK5: not specified Other data:

13. Disposal information

Substance/preparation disposal:

Chemical - physical process.

Other data:

After agreement with incinerator administrator and relevant authority, it can be deposited together with utility waste after its solidifying according necessary technical regulations.

Contaminated packages disposal:

Waste management according current local regulations.

Contaminated packages are recommended to be emptied totally and after proper flushing can be recycled.

14. Transport information

Ground transport: not considered

Class ADR/ RID:		Number/ letter:	
UN number:		Kemler.No.:	
Warning plate:		Technical plate:	

Inland water transport:

Class ADN/ ADN R:	-	Number/ letter:	-
Category:	-		

Sea transport: not considered

Class IMDG:	-	Page:	-
UN number:	-	Package type:	-
EMS number:	-	MFAG:	-
Substance polluting sea:	-	Technical name:	-

Air transport: not considered

Class ICAO/ IATA:		Package type:	
UN number:		Technical name:	

Other data: Under usual decrees the preparation does not mean dangerous load.

15. Regulatory information concerning the given substance/preparation:

Legal regulations relating to the substance/preparation:

Decree of the government No. 178/2001 Coll., Hygiene regulations (clause 68/2001), which determines conditions of health and safety for employees in work, amended by decree of the government No. 523/2002 Coll. (clause 180/2002).

Law 157/1998 on chemicals and preparations and on amendment of some other laws. Decree of the government No. 258/2001 Coll., which determines procedure for evaluation of chemicals and preparation hazards, the way of their classification and marking, and issues the List of so far classified dangerous chemicals

Decree No. 27/1999 Coll., on form and content of the safety data sheet for dangerous chemicals and preparation

Law No. 138/1973 Coll., on waters as subsequently amended, Decree No. 6/1997 Coll., on protection of top water quality, Law 125/1997 on waste

Decree of Ministry of Environment No. 337/1997 Coll. (Waste catalogue)

Preparation classification according law No. 157/1998 Coll. and 258/2001 Coll., Dangerousness marking :

Xi Irritating

R- phrases:

R38 Irritates skin

R41 danger of serious eye damage

S- phrases:

S26 By eye contact, rinse immediately with water and seek medical advice

S37/39 Wear suitable protective gloves and goggles or facial shield.

Class of substances threatening the water quality:

Weakly threatens water quality, grade 1 (own scale).

16. Other data

Data are based on current level of knowledge, but they do not represent any verification of product properties, and no legal obligations follow from them.

Corresponding R-phrases:

R38 Irritates skin

R41 danger of serious eye damage