



Edition: 1.0

SOL-SILICATE MASONRY STAINS

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Regulation, Evaluation, Authorization and Restriction of Chemicals (REACH).

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Section 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier: SOL-SILICATE MASONRY STAINS

1.2. Relevant identified uses of the mixture and uses advised against:

A water-based silicate paint used to coat building elements inside and outside. Uses advised against: There are no uses advised against identified.

1.3. Details of the supplier of the Safety Data Sheet:

MINERAL STAINS: JACKSONVILLE, FL 32223 info@mineralstains.com

1.4. Emergency telephone number: Emergency, 911 – fire service.

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Product is not classified as hazardous.

2.2. Label elements: not required

2.3. Other hazards: According to Annex XIII of REACH Regulation on PBT and vPvB, the mixture does not meet the criteria for PBT and vPvB.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of fillers, water dispersion of synthetic resins, potassium silicate, antifoaming agents and preservatives.

3.1. Substances

Ingredient	Content %	Index	EINECS	CAS
Silicic acid, potassium salt	3 -7	not applicable	215-199-1	1312-76-1

Inorganic substance UVCB

Registration number: 01-2119456888-17-xxxx

Classification 1272/2008:: H000- product is not classified as hazardous.

MR > 3,2 - product is not classified as hazardous.

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures:

After inhalation: Move injured person to fresh air and observe, in case of breathing difficulties, dizziness, nausea or loss of consciousness get medical assistance immediately. In case of inhibition of breathing apply assisted ventilation or artificial respiration. **After skin contact:** Remove contaminated clothing. Rinse the place exposed to mixture action with water and then wash with soap. **After contact with eyes:** Do not rub eyes. Rinse immediately with plenty of water within min. 15 minutes, keep the eyes wide open during rinsing. Remove any contact lenses. Contact an eye specialist. **After ingestion:** Do not induce vomiting. Do not give anything orally. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed: Action of products of alkaline reaction onto living tissues, in contrast to acids, is always delayed, that is why one should not allow long term and direct contact of dry or ready – to – use mixtures with skin, eyes or respiratory system. Follow remarks concerning safety and use shown on the label. Immediately remove product from skin, eyes and mucosae, which allows to prevent any delayed exposure effects.

4.3. Indication of any immediate medical attention and special treatment needed: In case of any symptoms of concern get medical assistance immediately, show safety data sheet, packaging or label. In case of contact with

eyes or mucosae medical consultation is recommended. Access to running water is recommended. Use protective creams in case of repeated or long term contact with skin.

Section 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media: Suitable extinguishing media: Foam, dry powder, sand, carbon dioxide, water – spray stream
Unsuitable extinguishing media: Do not use water in full stream.

5.2. Special hazards arising from the mixture: In case of fire hazardous gases (CO₂, CO) can form, in particular burning conditions forming of other hazardous substances is not unlikely.

5.3. Advice for firefighters: One should wear full set of protective clothing and individual breathing apparatus. Do not lead water from firefighting into aquatic environment. Use water stream to cool surfaces exposed to fire action.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For persons not belonging to staff applying aid:

One should estimate situation, make sure if there is no further danger to any people nearby (victims, ones applying aid, etc.), if needed, secure the incident site and call for help. In case of lack of danger to human life and health, one should commence actions leading to limitation of product penetration to environment and commence cleaning works.

For persons applying help:

One should check if a victim responds to stimulus. If the victim is unconscious, immediately open the airway by gently tilting the head back and gently lifting the chin forward. Check if the person breaths (feel for the person's breath on your cheek).

- If the victim breaths normally place the person in the recovery position and check one's breath regularly.

- If the victim does not breath start the cardiopulmonary resuscitation (CPR):

Place the heel of one hand over the center of the person's chest, between the nipples. Place your other hand on top of the first hand. Keep your elbows straight, and push straight down on (compress) the chest at least 2 inches (approximately 5 centimeters). Push hard at a rate of about 100 compressions a minute. After 30 chest compressions, open the person's airway and give two rescue breaths (pinch the nostrils, open the mouth keeping the chin lifted and, after taking deep breath, tightly sealing victim's mouth, blow air into lungs). If the victim's chest does not rise one should examine the mouth to make sure no foreign material occluding the airway is inside, remove it immediately, and check if the head is tilted enough and chin lifted. Continue chest compressions and rescue breaths in ratio 30:2 until emergency personnel take over or the victim starts breathing by oneself. If at incident site there is none available to give rescue breaths, then provide chest compressions only. In case of choking one should encourage the victim to cough, and in case of serious choking bend the victim forward and give up to 5 blows between the shoulder blades with the heel of your hand.

6.2. Environmental precautions: Counter release of greater volume of material into environment (sewage system, ground or surface water and soil) by using self – contained sewage systems, allow to gather, in case of breaching, without possibility of its passing into environment (backup sewage system, self – contained), use of backup reservoirs or backup packaging.

6.3. Methods and material for containment and cleaning up: For small mixture leakages – transfer to labelled, sealed container in order to regain or dispose the product safely. Absorb the remains with absorbing material (sand) and dispose appropriately. Remove contaminated soil. Large leakage – collect mechanically or with the use of appropriate absorbent and pass to destruct. Guidelines concerning spilled material disposal shown in Section 13.

6.4. Reference to other sections: Individual protection measures: section 8. Waste treatment: section 13.

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling: Avoid contact with skin and eyes. Prevent penetration to the environment. Do not eat and drink during work. Wash hands after use. Remove contaminated clothing and protective measures before entering places designated for eating.

7.2. Conditions for safe storage, including any incompatibilities: Keep in dry and cool place, in sealed original and labelled packages. Avoid direct sunlight, heat sources, hot surfaces and open fire. Storage temperature is between +5°C up to +30°C. Protect against freezing. Stir before use. While maintaining conditions above, no adverse reactions known.

7.3. Specific end uses: Use in accordance to occupational health and safety regulations. Provide proper ventilation, especially in closed rooms. Detailed information concerning the use, properties and instruction for use of the mortar are listed in the technical data sheet/product catalogue.

Section 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters: In case of occurrence in the mixture of ingredients listed in section 3.2.1 according to Minister of Labour and Social Policy Regulation of 6 June 2014 concerning maximum allowable concentration and intensity of health harmful factors at workplace (Dz.U.2014 no 0 pos.817), monitoring at workplace is obligatory.

8.2. Exposure controls

8.2.1 Provide proper room ventilation during work with mixture and individual protection measures. Provide access to running water and do not allow to wash hands with water from a bucket used for tools washing.

8.2.2. Individual protection measures

- **Respiratory protection:** Not required.

- **Skin protection:** Working clothes with long sleeves and legs with proper protection preventing the material from getting underneath. Waterproof, long working footwear. It is advisable to use the clothing and footwear resistant to this mixture. Hand protection: In case of possibility of contact with the product use protective gloves. Wear protective gloves on clean hands only. After taking the gloves off wash and dry hands thoroughly. Protective creams for hands recommended. Used or defective gloves should be immediately replaced with new ones.

- **Eye/face protection:** Eye protection – protective goggles protecting against sprays of chemical substances (meeting the standard EN 166).

- **Thermal protection:** Not required.

8.2.3 Environmental exposure control: Avoid contamination outflows, watercourses and soil.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: white thick liquid

Odour: characteristic for acrylic dispersion

Odour treshold: not applicable

pH: 11 - 12

Melting point / freezing point: not applicable

Initial boiling point and boiling range: above 100 °C

Flash point: not applicable

Evaporation rate: not applicable

Flammability: inflammable

Upper / lower flammability or explosive limits: not applicable

Vapour pressure: not applicable

Vapour density: not applicable

Relative density: approx. 1.5 g/cm³

Solubility: in commercial form mixable in water

Partition coefficient: n – octanol/water: not applicable

Auto – ignitron temperature: not applicable

Decomposition temperature: not applicable

Viscosity: approx. 15 000 mPas

Explosive properties: no

9.2. Other information: Not applicable.

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability: Mixture stable in standard conditions. In temperature above +150°C decomposition of the polymer dispersion possible.

10.3. Possibility of hazardous reactions: No hazardous reaction expected for mixture as long as normally used and not mixed with other products and substances.

10.4. Conditions to avoid: Temperature above +150°C.

10.5. Incompatible materials: Do not use containers made of aluminum, copper and alloys of these metals.

10.6. Hazardous decomposition products: Mixture does not decompose in ambient temperature.

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008: Not applicable.

11.2. Information on toxicological effects: Not applicable.

Routes of entry:

- **respiratory** - Not applicable.

- **digestive** - It is very unlikely so the product can get into digestive system, after exposure can happen during vomiting – choking. No toxic dose has been defined for the product. It is recommended to get medical attention in case of swallowing.
- **skin** - Acts neutrally or causes slight skin irritation - after setting gets relatively hard to wash off, skin reddening can occur as a result of its removing from the surface, that is why one should remove the product as quick as possible.
- **eyes** - Acts neutrally or causes slight eye irritation – remove product as quickly as possible.

Section 12. ECOLOGICAL INFORMATION

- 12.1. Toxicity:** Not applicable.
- 12.2. Persistence and degradability:** Limited, depending on the biodegradation conditions.
- 12.3. Bioaccumulative potential:** No evidence of bioaccumulation.
- 12.4. Mobility in soil:** Mixable with water.
- 12.5. Results of PBT and vPvB assessment:** Not applicable.
- 12.6. Endocrine disrupting properties:** Not applicable.
- 12.7. Other adverse effects:** Not applicable.

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste safe treatment: If possible, recycle and return to circulation. Do not dispose to the environment with sewage or water. Product waste should not contaminate soil or water. Follow rules of Waste Act of 14 December 2012 (Dz.U. 2013 no 0 pos. 21) with further changes.

Packaging waste treatment: Follow rules of Act on packaging and packaging waste of 13 June 2013 (Dz.U.2013 no.0 pos.888).

Waste code: Product: 08 01 99 (Wastes from the manufacture, formulation, supply and use of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inkswater suspensions containing paints and lacquers - Wastes not otherwise specified). Packaging: 15 01 02 (Packaging waste - Plastic packaging)

Section 14. TRANSPORT INFORMATION

- 14.1. UN number: Not applicable
- 14.2. UN proper shipping name: Not applicable
- 14.3. Transport hazard classes: Mixture transported in original packaging does not cause hazard in transport. Does not require special treatment and labelling according to current transport regulations.
- 14.4. Packing group: Not applicable
- 14.5. Environmental hazards: Not applicable
- 14.6. Special precautions for user: Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15. REGULATORY INFORMATION

15.1. Safety, health and environment regulations/ legislation specific for the mixture:

Phrases indicating hazard type and qualifying conditions of safe use of hazardous mixture according to Regulation (EC) 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 (see: Section 2.1 and 2.2).

According to Regulation of the Minister of Development of 8 August 2016 on the limitation of emissions of volatile organic compounds contained in some paints and varnishes intended for painting buildings and their finishing, fitting and associated elements with buildings and those elements of construction and in mixtures for vehicle refurbishment (Dz.U. 2016 no 0 pos.1353) with all further changes.

- Act on chemical substances and their mixtures of 25 February 2011 (Dz.U.2011 no.63 pos.322) with all further changes,

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning 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 with further changes

- Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

- Minister of Health Regulation of 30 December 2004 on occupational health and safety related to occurrence of chemical factors at workplace (Dz.U.2005 No 11 pos. 86) with further changes
- Minister of Economy Regulation of 21 December 2005 on fundamental requirements for individual protection measures (Dz.U.2005 No 259 pos. 2173)
- Government Declaration of 24 September 2002 on coming into effect of amendments to Appendix A and B to European Agreement concerning International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 (Dz.U.2002 No 194 pos.1629) with further changes
- Act of 20 April 2004 on amendment and repealing of some acts in relation to gaining the European Union membership by the Republic of Poland (Dz.U.2004 No 96 pos. 959)
- Minister of Economy, Labour and Social Policy Regulation of 26 September 1997 on general occupational health and safety rules (Dz.U.1997 No 129 pos. 844) with further changes
- Minister of the Environment Regulation of 9 December 2014 on waste catalogue (Dz.U.2014 No 0 pos.1923)
- Minister of Economy Regulation of 29 January 2013 on the regulations on manufacturing, turnover or application of hazardous substances and mixtures and introduction into turnover or application of substances which contain hazardous substances or mixtures (Dz. U. 2013 no. 0 pos. 1314)
- Minister of Economy Regulation of 10 October 2013 on the application of limits mentioned in appendix XVII, regulation no 1907/2006 (Dz. U. 2013 no 0 pos. 1314)
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Official Journal L 142 , 16/06/2000 P. 0047 – 0050)
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC (Official Journal L 38, 9.2.2006)
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC (Official Journal L 38, 19.12.2009).

15.2. Chemical safety assessment: The chemical safety report has not been prepared.

Section 16. OTHER INFORMATION

List of abbreviations and acronyms

CAS No – Chemical Abstract Service number

PBT – Persistent, Bioaccumulative, and Toxic

vPvB – vesry Persistent very Bioaccumulative

EC No – number assigned to a chemical substance in the European Inventory of Existing Chemical Substances, or number assigned to a substance in the European List of Notified Chemical Substances, or number in the list of chemical substances provided in the "No-longer polymers" publication.

REACH regulation – Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals.

CMR substance/mixture – carcinogenic, mutagenic or toxic for reproduction substance/mixture.

ADR – international agreement concerning the carriage of dangerous goods by road

TLV – Threshold Limit Value

STEL – Short – term Exposure Limit.

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

CLP – Regulation aligning the GHS system

MABC – Maximum Allowable Biological Concentration

Acute Tox. 4 - Acute toxicity, category 4.

Skin Irrit.2 - Skin irritation, category 2

Skin Sens. 1 - Sensitization of the skin, category 1

Eye Dam. 1 - Serious eye damage, category 1

Eye irrit. 2 - Eye irritation, category 2

Aquatic Chronic 2 - Hazardous to the aquatic environment, category 2.

List of H - phrases

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - Sensitization of the skin

H318 - Causes serious eye damage

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects

Other

When working with material one should mind dangers such as sprains, especially of back, arms and shoulders as a result of lifting and handling of bags with mortar, mortar mixtures, etc. Over the long term, frequent lifting of heavy items by workpeople can result in serious spine injuries.

According to definition of the Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, product is a mixture and is not subject to registration in REACH system.

According to Regulation (EC) No. 1272/2008 of the European Parliament and the Council, after 01 June 2015 mixtures are classified, labelled and packed according to CLP Regulation listed above.

According to Regulation (EC) No. 1272/2008 of the European Parliament and the Council, mixtures placed on the market before 01 June 2015 and holding old classification, stay on the market until 01 June 2017 with appropriate safety data sheet.

The information on this data sheet reflects the currently available knowledge and has been gathered with regard to safety requirements, simultaneously not guaranteeing product properties. The data sheet does not release the user from applying the legislation, administrative and product rules, occupational health and safety rules.

In elaboration of the data sheet the Center for Construction Research and Training and ECA (European Cement Association - Cembureau) library was used.