

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 31.05.2018

Revision: 05.05.2017

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

· **1.1 Product identifier**

· **Trade name:** JUPOL BIO SILICATE

· **Article number:** JSI

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Water-based dispersion silicate interior coat Jupol Bio Silicate, JSI.

· **Life cycle stages**

C Consumer use

PW Widespread use by professional workers

· **Sector of Use**

SU19 Building and construction work

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category**

PC9a Coatings and paints, thinners, paint removers

JUPOL BIO SILICATE is an environmentally friendly interior wall paint based on potash water glass. It is recommended especially as decorative protection of walls and ceilings of buildings of architectural heritage and it can be used without any restrictions to process wall surfaces of residential and business buildings, schools, nursery schools, hospitals, hotels, residences for the elderly and other buildings. Suitable surfaces include fine renders of all types, surfaces levelled with levelling compounds, as well as gypsum-cardboards and fiber-cement boards, chipboards, unplastered concrete and similar. Application to well-adhered old dispersion coats and well-adhered decorative renders of all types is also possible.

· **Process category**

PROC10 Roller application or brushing

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

· **Environmental release category** ERC11a Widespread use of articles with low release (indoor)

· **Application of the substance / the mixture**

Silicate interior paint

JUPOL BIO SILICATE is distinguished by exceptionally low content of vaporous organic substances, and it does not contain softening agents and heavy metals. It is easy to apply and available in a wide range of shades. Paint film binds chemically to the surface, has no shine, is highly water vapour permeable and resistant to wet scrubbing, so that the not extremely-adhered filth can be wiped from painted surfaces with a cloth soaked into a solution of conventional household preparations.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

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· **Further information obtainable from:**

TRC JUB

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· **1.4 Emergency telephone number:**

UK Emergency number: 999

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

During normal opening times (7 - 15h CET) Group JUB: +386 1 5884 185

**SECTION 2: Hazards identification**· **2.1 Classification of the substance or mixture**

In accordance with Regulations on the classification of chemicals, the product is not classified as a hazardous compound since the content of potentially hazardous components is significantly lower than the classification criteria.

Potential risks to man: potash water glass can irritate skin.

· **Classification according to Regulation (EC) No 1272/2008**

The substance is not classified as hazardous to health or environment, according to the CLP regulation.

The product is not classified, according to the CLP regulation.

· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008** Void· **Hazard pictograms** Void· **Signal word** Void· **Hazard statements** Void· **Precautionary statements**

P273 Avoid release to the environment.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Safety data sheet available on request.

· **Hazard description:** -· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients**· **Description:**

Mixture of substances listed below with nonhazardous additions.

The product is a chemical compound characterised by low content of hazardous substances.

Main ingredients of Jupol Bio Silicate are: potash water glass and styrene-acrylate binder, fine calcite and silicate fillers, titanium dioxide, cellulose thickening agents, supplements and water.

· **Dangerous components:**

CAS: 1312-76-1	Water solution of Silicic acid, potassium salt, mol ratio >3.2	< 5.0%
EINECS: 215-199-1		

· **Additional information:**

For the wording of the listed hazard phrases refer to section 16.

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Protect from frost.
- **Storage class:** Storage class: 12 – Incombustible products
- **7.3 Specific end use(s)** No further relevant information available.

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

- **Additional information about design of technical facilities:** No further data; see item 7.

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- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Risk management measures**  
It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:
  - Protective gloves that meet the criteria of BS EN 374.
  - Protective goggles must comply with standard BS EN 166.
  - Protective mask respirator for fine dust particles and vapors should be in accordance with BS EN 143 (full face masks), BS EN 149 (dust particle filters), BS EN 14387 (filters for gases and combined filters)

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Different according to colouring
Odour:	Mild
Odour threshold:	Not determined.
- **pH-value at 20 °C:** 11
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
- **Flash point:** 100 °C
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.

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· <b>Explosion limits:</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1.53 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
VOC (EC)	0.07 % VOC content: max 1 g/L (the product is a subject to the Directive 2004/42/EC as a coating of cat. A/a )
Solids content:	95.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
-----  
oral. > 2000 mg/kg (rat)  
dermal. > 2000 mg/kg(rat)  
inhal. > 2 mg/kg, 4h (rat)  
-----
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell 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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.

- **European waste catalogue**

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
15 01 02	plastic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |   |
|--|---|
| · <b>14.1 UN-Number</b>  | JUPOL BIO SILICATE is not classified as a substance or compound which would be dangerous for transport in accordance with provisions of transport regulation. |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void  |
| · <b>14.2 UN proper shipping name</b>  | Void  |
| · <b>ADR, ADN, IMDG, IATA</b>  |   |
| · <b>14.3 Transport hazard class(es)</b>   | Void  |
| · <b>ADR, ADN, IMDG, IATA</b>  |   |
| · <b>Class</b>   |   |
| · <b>14.4 Packing group</b>  | Void  |
| · <b>ADR, IMDG, IATA</b>   |   |
| · <b>14.5 Environmental hazards:</b>   | No  |
| · <b>Marine pollutant:</b>   |   |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.   |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |

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- |  |        |
|--|--------|
| · <b>Transport/Additional information:</b> |        |
| · <b>ADR</b>                               | -      |
| · <b>Limited quantities (LQ)</b>           | -      |
| · <b>UN "Model Regulation":</b>            | UN-, - |

### SECTION 15: Regulatory information

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

Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

In accordance with the current regulation the product is not classified as a dangerous substance or mixture.

General safety measures should be considered when working or handling with the product.

- **Labelling according to Regulation (EC) No 1272/2008 -**
- **Chemical safety assessment -**
- **Directive 2012/18/EU**
- **Seveso category -**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Recommended restriction of use**

Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.

Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well.

· **Department issuing SDS:**

JUB d.o.o.

Product safety department

· **Contact:**

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TRC-JUB

branko.petrovic@jub.eu

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative***\* Data compared to the previous version altered.***Version 1.0, 5.03.2013.**Version 2.0, 24.03.2015; Changed Chapter: 2., 16.**Version 3.0, 3.02.2016; Changed Chapter: 1., 16.**Version 4.0, 5.05.2017; Changed Chapter: 1., 2.,3.,15.,16.*

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