

# Safety Data Sheet



Mowital® SB

according to JIS Z 7253 : 2019

Issue date: 5/30/2023 Revision date: 5/30/2023 Version: 7.00

## 1. Chemical product and company identification

Substance name : Mowital® SB  
Type of product : Polymer  
Article number : 200004  
CAS-No. : 68648-78-2 or 63148-65-2

### Recommended use of the chemical and restrictions on use

Recommended use : For industrial use only; Temporary binder for ceramics; Coating; Adhesives; 3D printing; Additive/binder for primer; Printing ink.

### Company information

#### Distributor

Kuraray Co., Ltd.  
100-8115 Otemachi, Chiyoda-ku Tokiwabashi Tower 2-6-4  
Tokyo, Japan  
Telephone: +81-3-6701-1422  
Pvbinquiry.Jp@kuraray.com

#### E-mail address of competent person responsible for the SDS

product-safety@kuraray.com

#### Manufacturer

Kuraray Europe GmbH  
Philipp-Reis-Str. 4  
65795 Hattersheim am Main  
Germany  
Telephone: +49-69-305-85300  
Technical Contact: +49-69-305-13345  
E-mail: product-safety@kuraray.com

### Emergency telephone number

Emergency number : +81-3-6701-1422 or + 81-3689-08677 (Access Code: 334674)

## 2. Hazards identification

No labelling applicable

### Other hazards which do not result in classification

Other hazards which do not result in classification : Fine particles may form explosive mixtures with air. Prevent dust accumulation to minimize explosion hazard. This material does not ignite easily; however, feasible precautions against dust explosion are recommended.

## 3. Composition/information on ingredients

Distinction of substance or mixture : Substance  
Chemical name : Polyvinyl butyral  
Synonyms : SB 60 HH, SB 70 HH

Name	Concentration (%)	Formula	Reference number in the gazette list		CAS-No.
			CSCL No.	ISHL No.	
Polyvinyl butyral	> 97.5	-	6-708	6-708	68648-78-2 or 63148-65-2

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Name	Concentration (%)	Formula	Reference number in the gazette list		CAS-No.
			CSCL No.	ISHL No.	
water (Impurity)	< 2.4	H <sub>2</sub> O	2-(4)-1220	2-(4)-1220	7732-18-5
butyraldehyde (Impurity)	< 0.05	-	(2)-494	(2)-494	123-72-8
sodium chloride (Impurity)	< 0.05	ClNa	(1)-236	(1)-236	7647-14-5

## 4. First aid measures

### First aid measures

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### Most Important Symptoms/Effects

- Symptoms/effects : Dust may irritate the respiratory tract, skin and eyes.

### Notes to physician

- Other medical advice or treatment : Treat symptomatically.

## 5. Fire fighting measures

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire, Water spray, Dry powder, Foam
- Unsuitable extinguishing media : Strong water jet
- Fire hazard : The product is not flammable. The product may form dust and build up electrostatic charges, which may produce an electric spark (ignition source). Proper grounding procedures to avoid static electricity should be followed.
- Reactivity in case of fire : Direct contact with eyes may cause temporary irritation. Dust may irritate throat and respiratory system and cause coughing.
- Hazardous decomposition products in case of fire : Toxic fumes may be released: Carbon monoxide, Carbon dioxide
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.  
Self-contained breathing apparatus.  
Complete protective clothing.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses.  
Disposal must be done according to official regulations.  
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

- General measures : Avoid inhalation of dust and contact with skin and eyes.

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## For non-emergency personnel

Emergency procedures : Ventilate spillage area.

## For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.  
For further information refer to section 8: "Exposure controls/personal protection".

## Environmental precautions

Environmental precautions : Avoid sub-soil penetration.  
Environmental manager must be informed of all releases.

## Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Avoid dust formation.  
Dust can be vacuumed with a vacuum cleaner containing a HEPA (High Efficiency Particulate Air) filter.  
Do not use compressed air for cleaning.

Other information : Disposal must be done according to official regulations.

## 7. Handling and storage

### Handling

Technical measures : Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Precautions for safe handling : Ensure good ventilation of the work station.  
Wear personal protective equipment. Avoid creating or spreading dust. The material must not be deposited in large quantities, especially on horizontal surfaces, as it could become released into the air from there, form flammable dust clouds and contribute to secondary explosions. Any unavoidable deposit of dust must be regularly removed. Prevent build-up of electrostatic charges (e.g, by grounding). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide appropriate exhaust ventilation at places of dust forming. Use only in well-ventilated areas. Observe recognised industrial hygiene measures. Avoid prolonged and repeated contact with skin.

Prevents handling of incompatible substances or mixtures : No data available

Hygiene measures : Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product.

### Storage

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store in original tightly closed container.

Material used in packaging/containers : No data available

Information about storage in one common storage facility : Keep away from strong acids and strong oxidizers. Keep away from food, drink and animal feeding stuffs

## 8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Ensure good ventilation of the work station

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### Protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment, Breathing apparatus with filter, A-P2, EN 143, Short term exposure, Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust
Hand protection	: In case of repeated or prolonged contact wear gloves, Nitrile rubber, ISO 374-1, Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer, Please follow the instructions related to the permeability and the penetration time provided by the manufacturer, Gloves must be replaced after each use and whenever signs of wear or perforation appear
Eye protection	: Sealed safety goggles, ISO 16321-1
Skin and body protection	: Wear suitable protective clothing, EN ISO 13688
Environmental exposure controls	: Avoid release to the environment.

## 9. Physical and chemical properties

Physical state	: Solid
Appearance	: Powder
Colour	: colorless, appearance white.
Odour	: odourless
pH	: No data available
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20° C	: Not applicable
Relative density	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive properties	: Product is not explosive.
Explosive limits (vol %)	: No data available
Oxidising properties	: Non oxidizing
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
VOC content	: < 2.5 %
Dust explosion category	: ST 1 - Weak explosion
Additional information	: Vicat softening temperature 50 - 63 °C DIN EN ISO 306

## 10. Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.

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Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid creating or spreading dust.
Incompatible materials	: Strong oxidizing agent. Strong acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

Acute toxicity (oral)	: (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: (Based on available data, the classification criteria are not met)
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 sensitization	: No data available
Skin sensitization	: No data available
Respiratory or skin sensitisation	: (Based on available data, the classification criteria are not met)
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)
Aspiration hazard	: No data available

### Polyvinyl butyral (68648-78-2 or 63148-65-2)

Viscosity, kinematic	Not applicable
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## 12. Ecological information

### Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: (Based on available data, the classification criteria are not met)

### Persistence and degradability

### Bioaccumulative potential

### Mobility in soil

### Hazardous to the ozone layer

Ozone	: No data available
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## 13. Disposal considerations

Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
Waste treatment methods	: Disposal must be done according to official regulations. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

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## 14. Transport information

### International Regulations

United Nations Recommendations on the Transport of Dangerous Goods (UN RTDG)	Transport by sea (IMDG)	Air transport (IATA)
<b>UN number</b>		
Not applicable	Not applicable	Not applicable
<b>UN proper shipping name</b>		
Not applicable	Not applicable	Not applicable
<b>Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>Environmental hazards</b>		
Not applicable	Not applicable	Not applicable

Marine pollutant : Not applicable

### Regulations in Japan

Other information : No supplementary information available

## 15. Regulatory information

### National law

#### Other regulatory Information

Other information, restriction and prohibition regulations : Listed on the Japanese ENCS (Existing New Chemical Substances) inventory, Fire Service Act: Designated combustible material (Synthetic resins, others) (Storage limit: 3000 kg)

## 16. Other information

Data sources : Information provided by the manufacturer.  
Article number : 200004  
Other information : We hereby confirm that for Mowital® grades the Country of Origin is Germany.  
Version/s 1.00 - 5.00 is/are not available in this language.

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