

Mowital® B

according to JIS Z 7253: 2019

Issue date: 7/06/2023 Revision date: 7/06/2023 Version: 2.00

1. Chemical product and company identification

Substance name : Mowital® B

Type of product : Polymer

Product code : 200002

CAS-No. : 68648-78-2 or 63148-65-2

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use,

Temporary binder for ceramics,

Adhesives, Coating, 3d printing, Printing inks

Company information

Supplier

Kuraray Co., Ltd. Tokiwabashi Tower 2-6-4, Otemachi Chiyoda-ku

Tokyo 100-0004, Japan T +81-3-6701-1422

pvb_inquiry@kuraray.co.jp

E-mail address of competent person responsible for the SDS

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 : B 14 S, B 16 H, B 20 H, B 30 H, B 30 HH, B 30 T, B 45 H, B 60 H, B 60 HH, B 60

T, B 75 H

Name	Concentration (%)	Formula	Reference n gazet		CAS-No.
			ENCSNo.	ISHL No.	
polyvinyl butyral (Main constituent)	> 97.5	-	(6)-708	(6)-708	63148-65-2
water (Impurity)	< 2.4	H2O	2-(4)-1220	2-(4)-1220	7732-18-5

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Name	Concentration (%)	Formula		umber in the tte list	CAS-No.
			ENCSNo.	ISHL No.	
butyraldehyde (Impurity)	< 0.05	-	(2)-494	(2)-494	123-72-8
sodium chloride (Impurity)	< 0.05	NaCl	(1)-236	7-(3)-1053	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.

Contact with dust: Irritating to eyes and mucous membranes.

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 : Irritation of the respiratory tract, skin, eyes and mucous membranes possible.

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 fog, Foam, Dry

powder. Carbon dioxide

: Do not use a solid water stream as it may scatter and spread fire Unsuitable extinguishing media

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.

Hazardous decomposition products in case of : Toxic fumes may be released: Carbon dioxide, Carbon monoxide.

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.

Fine dust dispersed in air may ignite.

Use standard firefighting procedures and consider the hazards of other involved

materials. Move containers from fire area if you can do so without risk.

The product is not flammable.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Avoid contact with skin, eyes and clothing.

Concerning personal protective equipment to use, see section 8.

For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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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 release to the environment.

Environmental manager must be informed of all releases.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for

disposal. Avoid dust formation. Collect dust or particulates using a vacuum

cleaner with a HEPA filter.

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.

Minimize dust generation/release and accumulation.

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 : No data available

or mixtures

Hygiene measures

3 1

: 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 cool.

Keep container tightly closed. Store in original tightly closed container.

Material used in packaging/containers

: No data available

Incompatible materials : Keep away from strong acids and strong oxidizers.

8. Exposure controls / Personal protection equipment

Appropriate engineering controls

Protective equipment

: Ensure good ventilation of the work station

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment, Dust

production: dust mask with filter type 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

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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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Nitrile rubber	Nitrile rubber	6 (> 480 minutes)	0,12		EN ISO 374

whenever signs of wear or perforation appear

Eye protection : Sealed safety goggles, ISO 16321-1
Skin and body protection : Wear suitable protective clothing, EN 340

: Solid

Environmental exposure controls : Avoid release to the environment.

9. Physical and chemical properties

Appearance : Powder : colourless Colour Odour odourless : No data available pН 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 : Not applicable. Decomposition temperature : No data available

Flammability : No data available Vapour pressure : Not applicable Relative vapour density at 20° C : Not applicable

Relative density : Not specifically applicable

Density : No data available

Relative gas density : Not specifically applicable

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 %

Particle characteristics : No data available

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.

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.

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Incompatible materials : Strong acids. Strong oxidizing agent.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

11. Toxicological information

Acute toxicity (oral) : Classification not possible (Based on available data, the classification criteria are

not met)

Acute toxicity (dermal) : Classification not possible (Based on available data, the classification criteria are

not met)

Acute toxicity (inhalation) : Not applicable (gas)

Not applicable (Vapour)

Classification not possible (dust, mist) (Based on available data, the classification

criteria are not met)

Skin corrosion/irritation : Classification not possible (Based on available data, the classification criteria are

not met)

water (7732-18-5)		
Н	7	
butyraldehyde (123-72-8)		
рН	3 (20 $^{\circ}$ C; 50 g/L; (OECD 105 method))	

Serious eye damage/irritation : classification not possible

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

water (7732-18-5)	
рН	7
butyraldehyde (123-72-8)	
рН	3 (20 ° C; 50 g/L; (OECD 105 method))

Respiratory sensitization : Classification not possible Skin sensitization : Classification not possible

Respiratory or skin sensitisation : (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Classification not possible

(Based on available data, the classification criteria are not met)

Carcinogenicity : Classification not possible

(Based on available data, the classification criteria are not met)

Reproductive toxicity : Classification not possible

(Based on available data, the classification criteria are not met)

STOT-single exposure : Classification not possible

(Based on available data, the classification criteria are not met)

STOT-repeated exposure : Classification not possible

(Based on available data, the classification criteria are not met)

Aspiration hazard : Classification not possible

polyvinyl butyral (68648-78-2 or 63148-65-2)		
Viscosity, kinematic	Not applicable	
water (7732-18-5)		
Viscosity, kinematic No data available		
sodium chloride (7647-14-5)		
Viscosity, kinematic	Not applicable	

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12. Ecological information

Ecotoxicity

term (acute)

Hazardous to the aquatic environment, short- : Classification not possible (Based on available data, the classification criteria are

not met)

Hazardous to the aquatic environment, long-

term (chronic)

: Classification not possible (Based on available data, the classification criteria are

not met)

Persistence and degradability

polyvinyl butyral (68648-78-2 or 63148-65-2)	
Persistence and degradability	No data available

Bioaccumulative potential

polyvinyl butyral (68648-78-2 or 63148-65-2)	
Bioaccumulative potential	No data available

Mobility in soil

polyvinyl butyral (68648-78-2 or 63148-65-2)	
Mobility in soil	No data available

Hazardous to the ozone layer

Ozone : classification not possible

Other adverse effects

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.

14. Transport information

International Regulations

United Nations Recommendations on the Transport of Dangerous Goods (UN RTDG)	Transport by sea (IMDG)	Air transport (IATA)		
UN number				
Not applicable	Not applicable	Not applicable		
UN proper shipping name				
Not applicable	Not applicable	Not applicable		
Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		

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United Nations Recommendations on the Transport of Dangerous Goods (UN RTDG)	Transport by sea (IMDG)	Air transport (IATA)		
Packing group				
Not applicable	Not applicable	Not applicable		
Environmental hazards				
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.

Department issuing data specification sheet: : KFT Chemieservice GmbH

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