

Mowital® B

according to JIS Z 7253: 2019

Issue date: 11/29/2022 Revision date: 11/29/2022 Version: 1.01

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 druck,

printing inks

Company information

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

Kuraray Co., Ltd. product-safety@kuraray.com

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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 H, B 30 T, B 45 H, B 60 H, B 60 HH, B 60

T, B 75 H

Name Concentration (%)		Formula	Reference number in the gazette list		CAS-No.
			ENCS No.	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
butyraldehyde (Impurity)	< 0.05	-	(2)-494	(2)-494	123-72-8

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Name	Concentration (%)	Formula		umber in the te list	CAS-No.
			ENCS No.	ISHL No.	
sodium chloride (Impurity)	< 0.05	NaCl	(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.

> Contact with dust: Irritating to eyes and mucous membranes. : 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.

: Call a poison center or a doctor if you feel unwell. First-aid measures after ingestion

Most Important Symptoms/Effects

First-aid measures after inhalation

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

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

Fire hazard 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.

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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 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 wellventilated 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 : 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 : Ensure good ventilation of the work station

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Protective equipment

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

Hand protection : In case of repeated or prolonged contact wear gloves, Nitrile rubber, EN 374,

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

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

Eye protection : Sealed safety goggles, EN 166

Skin and body protection : Wear suitable protective clothing, EN 340

Environmental exposure controls : Avoid release to the environment.

9. Physical and chemical properties

Physical state : Solid **Appearance** : Powder Colour : colourless Odour odourless рΗ : No data available Relative evaporation rate (butylacetate=1) : Not applicable Melting point : No data available Freezing point : Not applicable Boiling point : No data available : Not applicable Flash point Auto-ignition temperature : Not applicable. Decomposition temperature : No data available Flammability : No data available Vapour pressure : Not applicable : Not applicable Relative vapour density at 20° C

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.

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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.

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

Potential adverse human health effects and

symptoms

: Dust may irritate the respiratory tract, skin and eyes

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)

Serious eye damage/irritation : classification not possible

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

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

12. Ecological information

Ecotoxicity

Hazardous to the aquatic environment, short- : classification not possible

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

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Hazardous to the aquatic environment, long-

term (chronic)

: classification not possible

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

Persistence and degradability

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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

Other adverse effects : No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. Disposal considerations

Product/Packaging disposal

Waste treatment methods

recommendations

: Recycle or dispose of in compliance with current legislation.

: 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	UN proper shipping name				
Not applicable	Not applicable	Not applicable			
Transport hazard class(es)					
Not applicable	Not applicable	Not applicable			
Packing group					
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)	
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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