

according to Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official

Journal numbered 30105 on June 23, 2017 Issue date: 19/07/2024 Revision date: 19/07/2024 Version: 2.00

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

1.1. Product identifier

Product form Substance Trade name Mowital® B Chemical name polyvinyl butyral

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

Product code 200002 Type of product : Polymer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Industrial use

Temporary binder for ceramics; Coating; Adhesives; 3D printing; Additive/binder for primer,

Printing ink

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Kuraray Europe GmbH Philipp-Reis-Str. 4

65795 Hattersheim am Main Germany Telephone: +49-69-305-85300

Technical Contact: +49-69-305-13345

Email competent person

product-safety@kuraray.com

1.4. Emergency telephone number

Emergency number : +1 760 4776 3959 access code: 334674

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA] (Amendment: (OG) 10.12.2020 - 31330)

Not classified

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA] (Amendment: (OG) 10.12.2020 - 31330)

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the 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.

SECTION 3: Composition/information on ingredients

3.1. Substances

· Mowital® B Trade name

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

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



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Name	Product identifier	%	Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA] (Amendment: (OG) 10.12.2020 - 31330)
Polyvinylbutyral (Main constituent)	CAS-No.: 63148-65-2; 68648- 78-2	> 97.5	Not classified
water (Impurity)	CAS-No.: 7732-18-5 EC-No.: 231-791-2	< 2.4	Not classified
butyraldehyde (Impurity)	CAS-No.: 123-72-8 EC-No.: 204-646-6 EC Index-No.: 605-006-00-2	< 0.05	Flam. Liq. 2, H225 Eye Irrit. 2, H319
sodium chloride (Impurity)	CAS-No.: 7647-14-5 EC-No.: 231-598-3	< 0.05	Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Could burn but do not ignite readily. 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 fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

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.

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SECTION 6: Accidental release measures

6.1. 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.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. 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".

6.2. Environmental precautions

Avoid release to the environment. Environmental manager must be informed of all releases.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Avoid formation of dust. Pick up dust with a vacuum cleaner with HEPA filter. Do not use

compressed air for cleaning.

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

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : 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.

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

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in the original container well sealed. Store in a well-ventilated place. Keep cool.

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

facility

7.3. Specific end use(s)

Temporary binder for ceramics. Additive/binder for primer. Varnish. coatings. Printing ink. For industrial use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : In case of repeated or prolonged contact wear gloves. 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

replaced after each use and whenever signs of wear or perforation appear

permeability and the penetration time provided by the manufacturer. Gloves must be

Nitrile rubber Nitrile rubber 6 (> 480 minutes) 0.12 EN ISO 374	Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber	Nitrile rubber	6 (> 480 minutes)	0,12		EN ISO 374

Eye protection : Sealed safety goggles. ISO 16321-1

Skin and body protection : Wear suitable protective clothing. EN ISO 13688

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

Environmental exposure controls : Avoid release to the environment.

Other information : Provide appropriate exhaust ventilation at places of dust forming. Ensure adequate air

ventilation. Degree of ventilation must be adapted to the conditions. Where appropriate, use process chambers, local exhaust systems or other structural measures to control airborne concentrations to keep them below recommended exposure limits. If no exposure limits have been set, keep concentrations in the air at an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL

(occupational exposure limit), suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.

Colour : colorless, appearance white

Odour : odourless
Odour threshold : No data available
pH : No data available

No data available pH solution No data available Relative evaporation rate (butylacetate=1) Not applicable Melting point No data available Freezing point Not applicable No data available Boiling point Flash point Not applicable : Not applicable. Auto-ignition temperature Decomposition temperature : No data available

Flammability (solid, gas) : Could burn but do not ignite readily

Vapour pressure : Not applicable Relative vapour density at 20°C : Not applicable

Relative density : Not specifically applicable Relative gas density : Not specifically applicable

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Explosive limits : No data available

9.2. Other information

VOC content : < 0.1 %

Dust explosion category : St 1 - Weak explosion

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Additional information : Vicat softening temperature 50 - 63 °C DIN EN ISO 306

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified (Based on available data, the classification criteria are not met) Acute toxicity (dermal) Not classified (Based on available data, the classification criteria are not met) Acute toxicity (inhalation) Not classified (Based on available data, the classification criteria are not met) Skin corrosion/irritation Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Serious eye damage/irritation Respiratory or skin sensitisation Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity Not classified (Based on available data, the classification criteria are not met) Carcinogenicity Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

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

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

(chronic)

12.2. Persistence and degradability

Mowital® B (68648-78-2 or 63148-65-2)	
Persistence and degradability	No data is available on the degradability of this product.

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sodium chloride (7647-14-5)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

Mowital® B (68648-78-2 or 63148-65-2)		
Bioaccumulative potential No data available.		
butyraldehyde (123-72-8)		
Bioconcentration factor (BCF REACH) 3.162 (calculated value)		
Partition coefficient n-octanol/water (Log Pow) 1.3 (20 °C; pH 4.4 - 4.7; (OECD 107 method))		
sodium chloride (7647-14-5)		
Partition coefficient n-octanol/water (Log Pow)	-3	

12.4. Mobility in soil

polyvinyl butyral (68648-78-2 or 63148-65-2)		
Mobility in soil No additional information available		
butyraldehyde (123-72-8)		
Surface tension 70 mN/m (20 °C; 1 g/L; (OECD 115 method))		
sodium chloride (7647-14-5)		
Ecology - soil	Expected to be highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

: Not classified Ozone

Other adverse effects No other adverse effects on the environment (e.g. ozone depletion, photochemical ozone

formation potential, global warming potential) are expected from this constituent.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

: Disposal must be done according to official regulations. Do not discharge into drains or the Waste treatment methods

environment. Do not dispose of with domestic waste.

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable



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ADR	IMDG	IATA	ADN	RID	
14.3. Transport hazard	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

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 environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances published in the Official Journal numbered 30031 on April 7, 2017.

VOC content : < 0.1 %

Mowital® B is not subject to Regulation on Persistent Organic Pollutants (O.G. 14.11.2018-30595)

SECTION 16: Other information

Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	



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Abbreviations and acronyms		
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources : Information provided by the manufacturer.

Department issuing data specification sheet: : KFT Chemieservice GmbH

Im Leuschnerpark 3 D-64347 Griesheim

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500

SDS Service: +49 6155 8981-522

Contact person : Dr. Christian Rank

Additional information A safety data sheet is not required for this product. This Product Safety Information Sheet

has been created on a voluntary basis

Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

KFT SDS TR 01 - Version 23.1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.