

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996) Issue date: 6/12/2023 Revision date: 7/11/2024 Version: 1.2

SECTION 1: Identification

1.1 Product iden	tifier			
Trade name Chemical name Product form Type of product CAS-No. Product code	:	Mowital® B polyvinyl butyral Substance Polymer 68648-78-2 or 63148-65-2 200002		
1.2 Other means	of identification			
Synonyms	:	B 14 S, B 16 H, B 20 H, B 30 H, B 3	0 HH, B 30 T, B 45 H, B	60 H, B 60 HH, B 60 T, B 75 H
1.3 Recommende	ed use of the chemical and re	estrictions on use		
Recommended use	:	Industrial use temporary binder for ceramics adhesives Coating 3d printing printing inks		
1.4 Details of ma	nufacturer or importer			
Manufacturer/Supplier Kuraray Europe GmbH Philipp-Reis-Str. 4 Hattersheim am Main 65795 Germany T +49-69-305-85300 Technical contact: +49-69-305-13345 Distributor Kuraray Asia Pacific Pte. Ltd. 250 North Bridge Road #10-01/02 Raffles City Tower 179101 Singapore T +65 6337-4123 http://kuraray.com.sg/		Email competent product-safety@k		
1.5. Emergency	phone number			
Emergency number	:	(NZ*) +64 800 451719 (Access Code: 334674)		
Country	Organisation/Company	Address	Emergency number	Comment

Country	Organisation/Company	Address	Emergency number	Comment
New Zealand	New Zealand National Poisons Dunedin School of Medicine, University of Otago	PO Box 56 9054 Dunedin	0800 764 766	

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996) Not classified

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

No labelling applicable

2.3. 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.

SECTION 3: Composition and information on ingredients

3.1. Substances

Chemical name

: polyvinyl butyral

Name	Product identifier	%	Classification according to GHS NZ
Polyvinylbutyral (Main constituent)	CAS-No.: 68648-78-2	> 97.5	Not classified
water (Impurity)	CAS-No.: 7732-18-5	< 2.4	Not classified
butyraldehyde (Impurity)	CAS-No.: 123-72-8	< 0.05	Flam. Liq. 2, H225 Eye Irrit. 2, H319
sodium chloride (Impurity)	CAS-No.: 7647-14-5	< 0.05	Eye Irrit. 2, H319

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary 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	: Rinse mouth thoroughly with water. Call a poison center or a doctor if you feel unwell.			
4.2. Symptoms caused by exposure				
Symptoms/effects	: Irritation of the respiratory tract, skin, eyes and mucous membranes possible. Dust may irritate the respiratory tract, skin and eyes.			
4.3. Medical attention and special treatme	nt			
Other medical advice or treatment	: Treat symptomatically.			

SECTION 5: Fire-fighting measures					
5.1. Extinguishing media					
Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Do not use a solid water stream as it may scatter and spread fire. 				

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

5.2. Specific hazards arising from the chem	lical
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.
General measures	: Avoid contact with skin, eyes and clothing. Concerning personal protective equipment to use, see section 8.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.
5.3. Special protective equipment and preca	autions for fire-fighters
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.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protect	tive 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 materials 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.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 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. Do not eat, drink or smoke when using this product. Always wash hands after handling the
	product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions Incompatible materials Information about storage in one common storage facility	 Store in a well-ventilated place. Keep cool. Keep away from strong acids and strong oxidizers. Keep away from food, drink and animal feeding stuffs.

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

SECTION 8: E	xposure controls and	personal protection				
8.1. Control par	ameters - exposure star	idards				
No additional inforr	nation available					
Exposure limit val No additional inforr	lues for the other compone nation available	nts				
8.2. Monitoring	methods					
No additional inforr	nation available					
8.3. Engineering	g controls					
Appropriate engineering controls :		: Ensure good ventilati	Ensure good ventilation of the work station.			
8.4. Individual p	protection measures, su	ch as personal protective	e equipment (PPE)			
Hand protection		glove is a decision the features, which differ permeability and the	r prolonged contact wea at depends not only on t for each manufacturer. I penetration time provide se and whenever signs o	he type of material, b Please follow the inst d by the manufacture	ut also on other quality ructions related to the r. Gloves must be	
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard	
Nitrile rubber	Nitrile rubber	6 (> 480 minutes)	0,12		EN ISO 374	
Eye protection:Skin and body protection:Respiratory protection:		 Wear suitable protect In case of insufficient mask with filter type F used in order to hand 	 Sealed safety goggles. ISO 16321-1 Wear suitable protective clothing. EN ISO 13688 In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: du 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 			

SECTION 9: Ph	vsical and	chemical	properties
	yorour und	onennour	properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Colorless, appearance white
Odour	: odourless
Odour threshold	: No additional information available
рН	: No additional information available
Evaporation rate	: Relative evaporation rate (butylacetate=1): Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point / Freezing point	: Freezing point: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable.
Flammability	: Could burn but do not ignite readily.
Vapour pressure	: Vapour pressure: Not applicable
Relative density	: Relative vapour density at 20°C: Not applicable
	Relative gas density: Not specifically applicable
Density	: Relative density: Not specifically applicable
Solubility	: No additional information available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing
Explosive limits	: No additional information available
Minimum ignition energy	: No data available
VOC content	: < 0.1 %

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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

: St 1 - Weak explosion

SECTION 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	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Strong acids. Strong oxidizing agents.
Hazardous decomposition products	: Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: Dust may irritate the respiratory tract, skin and eyes.

SECTION 12: Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic)	: Not classified (Based on available data, the classification criteria are not met)
Soil toxicity	: Not classified (Based on available data, the classification criteria are not met)
Terrestrial vertebrate toxicity	: Not classified (Based on available data, the classification criteria are not met)
Terrestrial invertebrate toxicity	: Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

Mowital® B (68648-78-2 or 63148-65-2)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
Mowital® B (68648-78-2 or 63148-65-2)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

butyraldehyde (123-72-8)	
Surface tension	70 mN/m (20 °C; 1 g/L; (OECD 115 method))
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
Ecology - soil	Expected to be highly mobile in soil.
12.5. Other adverse effects	
Other adverse effects :	Not classified (Based on available data, the classification criteria are not met) No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations		
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.	
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.	

SECTION 14: Transport information

IMDG	ΙΑΤΑ	UNRTDG
14.1. UN number		
Not applicable	Not applicable	Not applicable
14.2. UN Proper Shipping Name	· · ·	
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)	· · ·	
Not applicable	Not applicable	Not applicable
14.4. Packing group	·	
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

Transport by road and rail Not applicable

Transport by sea Not applicable

Air transport

Not applicable

14.7. Transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

sodium chloride (7647-14-5)

Hazardous Substances and New Organisms Act	
HSNO Approval Number HSR002722	
Other Regulations	
Other information on relevant regulations	Listed on NZIoC (New Zealand Inventory of Chemicals).
15.2. Chemical safety assessment	

No additional information available

SECTION 16: Other information	
Issue date Revision date	: 6/12/2023 : 7/11/2024
Data sources Department issuing data specification sheet:	 Information provided by the manufacturer. KFT Chemieservice GmbH Im Leuschnerpark 3 D-64347 Griesheim
Contact person	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 SDS Service: +49 6155 8981-522 : Dr. Christian Rank

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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
	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

KFT SDS NZ 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.