

MOWITAL® SB

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis Issue date: 11/27/2023 Revision date: 6/18/2025 Version: 2.1

SECTION 1 Chemical product and company identification

: 聚乙烯醇缩丁醛 **Chemical Chinese name**

Chemical English name : Polyvinyl butyral

Synonyms : SB 70 HH : 200004 **Product code**

Name of company : Kuraray Europe GmbH : Manufacturer/Supplier Title

Address : Germany Hattersheim am Main Philipp-Reis-Str. 4

: 65795 Zip code

Tel. : +49 (0)69 305 85300; Technical contact: +49 (0)69 305 13345

Email competent person : product-safety@kuraray.com Distributor : Kuraray (Shanghai) Co., Ltd.

Address : China Shanghai 200030 Xuhui District Address Unit 2207 2 Grand Gateway, 3

Hongqiao Road

Tel. : +86 21 6119 8111

E-mail : pvb inquiry@kuraray.co.jp

Emergency number : Emergency Telephone: +86-532-83889090 (24h NRCC hazardous Substances)

and others 3E +86 4001 2001 74 (Access Code: 334674)

Recommended use of the chemical Industrial use

Temporary binder for ceramics

Adhesives Coating 3D print Printing inks

Additive/binder for primer

Restricted use of the chemical : No additional information available

SECTION 2 Hazards identification

Emergency overview

Powder; Odourless; The product is non-reactive under normal conditions of use, storage and transport; Under normal conditions of storage and use, hazardous decomposition products should not be produced; No dangerous reactions known under normal conditions of use; Product is not explosive; Non oxidizing; Treat symptomatically.

GHS hazard classification

Not classified

Label elements

Signal word (GHS CN) : Not classified. : Not classified. Hazard statements (GHS CN)

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Physical and chemical hazards

No additional information available

Health hazards

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

possible, Dust may cause irritation.

Most Important Symptoms/Effects : No dangerous reactions known under normal conditions of use

Environmental hazards

No additional information available

Other hazards

Fine particles can form explosive mixtures with air. Avoid creating or spreading dust. Difficult to ignite. Possible precautions against a dust explosion recommended.

SECTION 3 Composition/information on ingredients

Product form : Substance.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	Classification (GHS CN)
polyvinyl butyral (Main constituent)	> 97.5	68648-78-2; 63148-65-2	Not classified
water (Impurity)	< 2.4	7732-18-5	Not classified
butyraldehyde (Impurity)	< 0.05	123-72-8	Flammable liquids, Category 2 Serious eye damage/eye irritation, Category 2 Hazardous to the aquatic environment – Acute hazard, Category 3
sodium chloride (Impurity)	< 0.05	7647-14-5	Acute toxicity (Oral), Category 5

SECTION 4 First-aid measures

Description of necessary 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 : Rinse mouth thoroughly with water.

Call a poison center or a doctor if you feel unwell

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Most important symptoms/effects

Most Important Symptoms/Effects : No dangerous reactions known under normal conditions of use

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

Dust may cause irritation.

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire

Water spray Dry powder Foam

Unsuitable extinguishing media : Strong water jet

Specific hazards

Fire hazard : Could burn but does 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

Advice for firefighters and protective measures

Firefighting instructions : Use ordinary fire-fighting measures, taking into account the hazards from other

materials involved

Remove the containers from the fire area if this can be done safely.

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

Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing

Personal Precautions, Protective : Concerning personal protective equipment to use, see section 8

Equipment and Emergency Procedures

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

Avoid release to the environment.

Environmental officer must be informed of all releases

Methods and material for containment and cleaning up

Methods for cleaning : Pick up dust with a vacuum cleaner with HEPA filter

Do not use compressed air for cleaning

For containment : Sweep and shovel into appropriate containers for disposal.

Prevention measures for secondary accidents

Prevention Measures for Secondary

Accidents

: If a serious spill cannot be contained, the local authority should be notified.

Other information : Disposal must be done according to official regulations

SECTION 7 Handling and storage

Handling

Precautions for safe handling : Ensure good ventilation of the work station

Wear personal protective equipment

Minimise 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.

Hygiene measures : Do not eat, drink or smoke when using this product.

Always wash hands after handling the product

Technical measures : Take suitable precautions, such as electrical earthing and connections or an inert

atmosphere.

Local and general ventilation : No additional information available

Storage

Storage conditions : Store in a well-ventilated place.

Keep cool.

Keep container tightly closed. Store in original container

Material used in packaging/containers : No additional information available

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

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Information about storage in one common storage facility

: Keep away from food, drink and animal feeding stuffs

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

butyraldehyde (123-72-8)	
China - Occupational Exposure Limits	
Local name	正丁醛 # n-Butylaldehyde
OEL PC-TWA	5 mg/m³
OEL PC-STEL	10 mg/m^3
Regulatory reference	GBZ 2.1-2019

Biological limit values

No additional information available

Monitoring methods

No additional information available

Appropriate engineering controls

Ensure good ventilation of the work station

Personal protective equipment

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.

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 permeability and the penetration time

provided by the manufacturer

Gloves must be replaced after each use and whenever signs of wear or

perforation appear

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Type	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

SECTION 9 Physical and chemical properties

Physical state : Solid
Appearance : Powder

Colour : Colourless, Appearance White

Odour : Odourless

pН : No data available Relative evaporation rate (butylacetate=1) : Not applicable **Melting point** : No data available Freezing point : Not applicable **Boiling point** : Not applicable : Not applicable Flash point : No data available Auto-ignition temperature : No data available **Decomposition temperature** : Not applicable Vapour pressure

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 : No data available

Pow)

Lower explosion limit : No data available
Upper explosion limit : No data available

 $\begin{tabular}{lll} \textbf{Radioactive} & : No \\ \textbf{VOC content} & : < 0.1 \ \% \\ \end{tabular}$

Softening point : Vicat softening temperature 50 - 63 °C DIN EN ISO 306

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Explosive properties : Product is not explosive

Oxidising properties : Non oxidizing

Dust explosion category : St 1 - Weak explosion

SECTION 10 Stability and reactivity

Chemical stability : Stable under normal conditions

Reactivity : The product is non-reactive under normal conditions of use, storage and

transpor

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 agent

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

should not be produced

Other properties : No additional information available

SECTION 11 Toxicological information

Acute toxicity

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

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/eye irritation

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation

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

Germ cell mutagenicity

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT - single exposure

STOT - single exposure : Not classified (Based on available data, the classification criteria are not met)

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STOT - repeated exposure

STOT - repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard

Aspiration hazard : No data available (Not applicable) (Not applicable)

SECTION 12 Ecological information

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)

No additional information available

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

Persistence and degradability

Polyvinyl butyral (68648-78-2; 63148-65-2)	
Persistence and degradability	No data available.

Bioaccumulative potential

Polyvinyl butyral (68648-78-2; 63148-65-2)	
Bioaccumulative potential	No data available

Mobility in soil

Polyvinyl butyral (68648-78-2; 63148-65-2)	
Bioaccumulative potential	No data available
Ecology - soil	No data available.

Other adverse effects

Classification procedure (Ozone) : Not classified (Based on available data, the classification criteria are not met)

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.

Results of PBT and vPvB assessment

PBT : This substance/mixture does not meet the PBT criteria of REACH regulation,

annex XIII

vPvB : This substance/mixture does not meet the vPvB criteria of REACH regulation,

annex XIII

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SECTION 13 Disposal considerations

Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with

domestic waste, Do not discharge into drains or the environment.

Contaminated container and packaging: No additional information availableAdditional information: No additional information available

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

recommendations

SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

Overland transport (JT/T 617)	Transport by sea	Air transport		
UN number				
Not regulated for transport	Not regulated for transport			
Proper shipping name				
Not regulated	Not regulated	Not regulated		
Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
Packing group	Packing group			
Not regulated	Not regulated	Not regulated		
Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				

Special transport precautions

Overland transport (JT/T 617)

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15 Regulatory information

Dangerous Goods List (GB 12268) : Contains listed substance(s).

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

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Inventory of Existing Chemical Substances: Contains listed substance(s)

in China (IECSC) polyvinyl butyral

Water (CAS-No. 7732-18-5)

n-Butylaldehyde (CAS-No. 123-72-8) Sodium chloride (CAS-No. 7647-14-5)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Catalogue of Hazardous Chemicals (2015) : Contains Hazardous Chemical(s)

n-Butyraldehyde (CAS-No. 123-72-8)

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous : Contains listed substance(s)
Factors of Occupational Diseases
Butyral (CAS-No. 123-72-8)

Other domestic regulatory lists

Dangerous Goods List (GB 12268) : Contains listed substance(s)

BUTYRALDEHYDE (CAS-No. 123-72-8)

SECTION 16 Other information

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Data sources : Information provided by the manufacturer

Department issuing data specification

sheet:

: KFT Chemieservice GmbH

Im Leuschnerpark 3 D-64347 Griesheim

Phone: +49 69 305 34 700 Fax: +49 69 305 86 500

SDS Service: +49 69 305 34 740

Contact person : Saskia Vetter

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

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Abbreviations and acronyms

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

Section	Changed item	Comments
	General revision.	
16.	Contact person.	Modified.

KFT SDS CN 01 - Version 24.2 Kuraray

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