

## SECTION 1 Chemical product and company identification

<b>Chemical Chinese name</b>	: 聚乙烯醇缩丁醛
<b>Chemical English name</b>	: Polyvinyl butyral acetal
<b>Synonyms</b>	: BA 20 S, BA 55 HH
<b>Product code</b>	: 200003
<b>Name of company</b>	: Kuraray Europe GmbH
Title	: Manufacturer/Supplier
Address	: Germany Hattersheim am Main Philipp-Reis-Str. 4
Zip code	: 65795
Tel.	: +49 (0)69 305 85300; Technical contact: +49 (0)69 305 13345
Email competent person	: product-safety@kuraray.com
<b>Distributor</b>	: 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	: <a href="mailto:pvb_inquiry@kuraray.co.jp">pvb_inquiry@kuraray.co.jp</a>
<b>Emergency number</b>	: Emergency Telephone: +86-532-83889090 (24h NRCC hazardous Substances) and others 3E +86 4001 2001 74 (Access Code: 334674)
<b>Recommended use of the chemical</b>	: Industrial use Temporary binder for ceramics Adhesives Coating 3D print Printing inks Additive/binder for primer
<b>Restricted use of the chemical</b>	: 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.
Hazard statements (GHS CN)	: Not classified.

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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.

**Comments** : > 97.5 % Polyvinyl butyral acetal (CAS: 70775-95-0).

<b>Ingredient(s)</b>	<b>Concentration or concentration ranges (w/w %)</b>	<b>CAS No.</b>	<b>Classification (GHS CN)</b>
Polyvinyl butyral acetal (Main constituent)	> 97.5	70775-95-0	Not classified
water (Impurity)	< 2.4	7732-18-5	Not classified

## 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

### 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

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### 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 Equipment and Emergency Procedures : Concerning personal protective equipment to use, see section 8

### 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

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

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### 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.
- 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

- No additional information available

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### 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

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

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## SECTION 9 Physical and chemical properties

<b>Physical state</b>	: Solid
<b>Appearance</b>	: Powder
<b>Colour</b>	: Colourless, Appearance White
<b>Odour</b>	: Odourless
<b>pH</b>	: No data available
<b>Relative evaporation rate (butylacetate=1)</b>	: Not applicable
<b>Melting point</b>	: Not applicable
<b>Freezing point</b>	: Not applicable
<b>Boiling point</b>	: Not applicable
<b>Flash point</b>	: Not applicable
<b>Auto-ignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Vapour pressure</b>	: Not applicable
<b>Relative vapour density at 20°C</b>	: Not applicable
<b>Density</b>	: No data available
<b>Solubility</b>	: No data available
<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Radioactive</b>	: No
<b>VOC content</b>	: < 0.1 %
<b>Softening point</b>	: Vicat softening temperature 75 - 85 °C DIN EN ISO 306
<b>Explosive properties</b>	: Product is not explosive
<b>Oxidising properties</b>	: Non oxidizing
<b>Dust explosion category</b>	: St 1 - Weak explosion

## SECTION 10 Stability and reactivity

<b>Chemical stability</b>	: Stable under normal conditions
<b>Reactivity</b>	: The product is non-reactive under normal conditions of use, storage and transport
<b>Possibility of hazardous reactions</b>	: No dangerous reactions known under normal conditions of use
<b>Conditions to avoid</b>	: None under recommended storage and handling conditions (see section 7)
<b>Incompatible materials</b>	: Strong acids Strong oxidizing agent
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
<b>Other properties</b>	: No additional information available

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## 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)

### 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 (No data available) (No data available)

## 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) : Not classified (Based on available data, the classification criteria are not met)
- No additional information available

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### Persistence and degradability

Polyvinyl butyral acetal (70775-95-0)	
Persistence and degradability	No data available.
Polyvinyl butyral acetal (70775-95-0)	
Persistence and degradability	No data available.

### Bioaccumulative potential

Polyvinyl butyral acetal (70775-95-0)	
Bioaccumulative potential	No data available

### Mobility in soil

Polyvinyl butyral acetal (70775-95-0)	
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

## 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 available
- Additional information** : No additional information available
- Product/Packaging disposal recommendations** : Recycle or dispose of in compliance with current legislation

## SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA



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Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
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		
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)**

**Inventory of Existing Chemical Substances in China (IECSC)** : Contains listed substance(s)  
Vinyl acetal polymers, acetal butyral (CAS-No. 70775-95-0)  
Water (CAS-No. 7732-18-5)

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

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

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

**Catalogue for Classification of Hazardous Factors of Occupational Diseases** : Contains listed substance(s)

**Other domestic regulatory lists**

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

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## 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
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

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## vPvB

### Very Persistent and Very Bioaccumulative

Section	Changed item	Comments
	General revision.	
16.	Contact person.	<b>Modified.</b>

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