

Mowital® BA

Compiled according to GB/T 16483, GB/T 17519 Issue date: 2/14/2024 Revision date: 7/15/2024 Version: 1 1

SECTION 1 Chemical product and company identification

Chemical English name : Polyvinyl butyral acetal **Synonyms** : BA 20 S, BA 55 HH

: Kuraray (Shanghai) Co., Ltd. Name of company

Title : Distributor

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

Hongqiao Road

Tel. : +86-21-6119-8111

E-mail : https://www.kuraray.co.jp/inquiry

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

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

Email competent person : product-safety@kuraray.com

: Kuraray Europe GmbH Manufacturer

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

Zip Code : 65795

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

E-mail : product-safety@kuraray.com

Recommended use of the chemical : Industrial use; Temporary binder for ceramics; Coating; Adhesives; 3D Printing;

Additive/binder for primer; Printing ink

Restricted use of the chemical : No additional information available

SECTION 2 Hazards identification

Emergency overview

Colourless, appearance white. 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

Not classified

Physical and chemical hazards

No additional information available

Health hazards

No additional information available

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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).

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	Classification (GHS CN)
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

No dangerous reactions known under normal conditions of use. Direct contact with eyes may cause temporary irritation. Dust may irritate throat and respiratory system and cause coughing..

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; Carbon dioxide

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

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Specific hazards

Fire hazard : The product 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

Reactivity in case of fire : Avoid formation of dust. Risk of dust explosion if enriched with fine dust in the

presence of air.

Advice for firefighters and protective measures

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

materials involved. Move containers away from the fire area if this can be done

without risk.

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 inhalation of dust and contact with skin and eyes

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

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

environment. Avoid sub-oil penetration

Methods and material for containment and cleaning up

Methods for cleaning : Collect dust using a vacuum cleaner equipped with HEPA filter. Do not use

compressed air for cleaning.

For containment : No additional information available

Prevention measures for secondary accidents

Prevention Measures for Secondary

: No additional information available

Accidents

Other information : Disposal must be done according to official regulations

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SECTION 7 Handling and storage

Handling

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

Wear personal protective equipment

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

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 origional tightly closed 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

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.

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

Nitrile rubber 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

Eye protection : Wear closed safety glasses

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

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

Physical state : Solid
Appearance : Powder

Colour : colourless, appearance white

Odour : odourless

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

Decomposition temperature : No data available
Vapour pressure : Not applicable

Relative vapour density at 20°C : Not applicable

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Density : No data available
Solubility : No data available
Partition coefficient n-octanol/water (Log : No data available

Pow)

Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Lower explosion limit : No data available
Upper explosion limit : No data available

Radioactive : No

Explosive properties : Product is not explosive

Oxidising properties : Non oxidizing
Particle size : No data available

Additional information: Vicat softening temperature 75-85°C DIN EN ISO 306

Dust explosion category : ST 1 - Weak explosion

VOC : < 0.1%

SECTION 10 Stability and reactivity

Chemical stability : Stable under normal conditions

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

transport

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use

Conditions to avoid : No additional information available

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)

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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

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

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

: No data available (Not applicable) Aspiration hazard

SECTION 12 Ecological information

Ecotoxicity

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

short-term (acute)

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

long-term (chronic)

No additional information available

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

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

Other information : No other adverse effects on the environment (e.g. ozone depletion, photochemical ozone formation potential, global warming potential) are

expected from this constituent.

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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

Overland transport (JT/T 617)	Transport by sea	Air transport		
UN number				
Not regulated for transport	Not regulated for transport	Not regulated for transport		
Proper shipping name				
Not applicable	Not applicable	Not applicable		
Transport document description				
Not applicable	Not applicable	Not applicable		
Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
Packing group				
Not applicable	Not applicable	Not applicable		
Environmental hazards				
Not applicable	Not applicable	Not applicable		

Special transport precautions

Overland transport (JT/T 617)

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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SECTION 15 Regulatory information

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

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

in China (IECSC) Vinyl acetal polymers, acetal butyrals (CAS-No. 70775-95-0)

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

SECTION 16 Other information

Data sources : Information provided by the manufacturer

Supplier Safety Data Sheet

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

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

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Abbreviations and acron ms

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 CN 01

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