

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law. Issue date: 1/23/2025 Version: 1.0

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

1.1. Product identifier

Product form : Substance
Trade name : MOWITAL® BA
Chemical name : Polyvinyl butyral acetal

CAS-No. : 70775-95-0 SDS Number : 200003

Synonyms : BA 20 S, BA 55 HH
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : For industrial use only

Use of the substance/mixture : Temporary binder for ceramics; Coating; Adhesives; 3D Printing; Additive/binder for primer;

Printing ink

1.2.2. Uses advised against

Restrictions on use : Unknown

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Kuraray Europe GmbH Philipp-Reis-Str. 4 D-65795 Hattersheim

Germany

Telephone: +49-69-305-85300 Technical Contact: +49-69-305-13345 E-mail: product-safety@kuraray.com

1.4. Emergency telephone number

Emergency number : +44 20 35147487 or 0 800 680 0425 - Access code: 334674

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : Fine particles can form explosive mixtures with air. Avoid creating or spreading dust.

Difficult to ignite. Possible precautions against a dust explosion recommended.

This product does not contain substances at ≥0.1% that meet the PBT criteria of UK REACH regulation, annex XIII.

This product does not contain substances at ≥0.1% that meet the vPvB criteria of UK REACH regulation, annex XIII.

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP.

SECTION 3: Composition/information on ingredients

3.1. Substances

 Name
 : MOWITAL® BA

 CAS-No.
 : 70775-95-0

Name	Product identifier		Classification according to GB CLP (SI 2019:720 as amended)
Polyvinyl acetal	CAS-No.: 70775-95-0	> 97.5	Not classified
Water (Impurity)	CAS-No.: 7732-18-5 EC-No.: 231-791-2	< 2.4	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor if symptoms

occur or persist.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Do not rub the eye. If eye irritation persists: Get

medical advice/attention.

First-aid measures after ingestion : Rinse mouth thoroughly with water. If the quantity swallowed is significant : Call a physician

immediately or Poison centre.

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 : Water fog. Water spray. Dry powder. Foam. Carbon dioxide (CO2). When using the

extinguishing agent, make sure no dust is formed in the air.

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

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.

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

air.

Hazardous decomposition products in case of fire : In the event of fire, harmful gases may be produced.

1/23/2025 (Issue date) GB - en 2/10

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Measures in case of dust release : Avoid inhalation of dust and contact with skin and eyes.

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 officer 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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". See Section 13 for disposal information.

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.

Hygiene measures : 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 : Store in a well-ventilated place. Keep cool. Store in the original container well sealed.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

1/23/2025 (Issue date) GB - en 3/10

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

MOWITAL® BA (70775-95-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Dust
WEL TWA (OEL TWA)	4 mg/m³ respirable fraction 10 mg/m³ inhalable fraction
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Follow standard monitoring procedures.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection.:

Safety glasses (EN 166).

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing.

Hand protection:

Wear protective gloves.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.12		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. In case of dust: Wear dust mask with filter type P2.

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

8.2.2.4. Thermal hazards

Thermal hazard protection:

Heatproof clothing.

8.2.3. Environmental exposure controls

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 : Powders

Colour : Colourless, Appearance white

Odour : Odourless Odour threshold : Not available рΗ Not available pH solution : Not available Melting point : Not available Freezing point : Not available **Boiling point** : Not available Flash point : Not applicable Lower explosion limit : No data available : No data available Upper explosion limit Vapour pressure Not available Vapour pressure at 50°C : Not available Relative vapour density at 20°C : Not applicable : Not available Relative density Density : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Auto-ignition temperature : Not applicable Decomposition temperature : Not available Viscosity, kinematic : Not applicable

9.2. Other information

Explosive properties

Dust explosion category : St 1 - Weak explosion

VOC content : < 0.1 %

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

: Not available

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.

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

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)

Cute toxicity (dermal)

Cute toxicity (dermal)

Cute toxicity (inhalation)

Cute toxicity (

Water (7732-18-5)	
рН	7

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

114101 (1102 10 0)	
рН	7
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 (Based on available data, the classification criteria are not met)

Aspiration nazard .	Not classified (based on available data, the classification effects are not met)
MOWITAL® BA (70775-95-0)	
Viscosity, kinematic	Not applicable

Other information

Water (7732-18-5)

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The product is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP.

Other information

Potential adverse human health effects and symptoms

: Existing skin and respiratory conditions, including skin inflammation, asthma and chronic lung disease may be exacerbated by exposure.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term

: 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)

(CHIOHIC

1/23/2025 (Issue date) GB - en 6/10

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

12.2. Persistence and degradability

MOWITAL® BA (70775-95-0)		
Persistence and degradability No data is available on the degradability of this product.		
Polyvinyl acetal (70775-95-0)		
Persistence and degradability	No data available.	
Water (7732-18-5)		
Persistence and degradability	No data available.	

12.3. Bioaccumulative potential

MOWITAL® BA (70775-95-0)	
Bioaccumulative potential No data available.	
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

MOWITAL® BA (70775-95-0)

This product does not contain substances at ≥0.1% that meet the PBT criteria of UK REACH regulation, annex XIII

This product does not contain substances at ≥0.1% that meet the vPvB criteria of UK REACH regulation, annex XIII

12.6. Other adverse effects

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

Regional waste regulation

: Disposal must be done according to official regulations.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable				
14.2. UN proper shippin	14.2. UN proper shipping name			
Not regulated as dangerous goods.				
Transport document description				
Not applicable				

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

IMDG	IATA	ADN	RID
ass(es)			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
rds			
Dangerous for the environment: False Marine pollutant: No	Dangerous for the environment: False	Dangerous for the environment: False	Dangerous for the environment: False
	Not applicable Not applicable rds Dangerous for the environment: False	Not applicable Not applicable Not applicable Not applicable Prds Dangerous for the environment: False Not applicable Not applicable	Not applicable Dangerous for the environment: False Not applicable Not applicable

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol 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. EU-Regulations

UK REACH Annex XVII (Restriction List)

This substance is not listed on UK REACH Annex XVII (Restriction List).

UK REACH Annex XIV (Authorisation List)

This substance is not listed on UK REACH Annex XIV (Authorisation List).

UK REACH Candidate List (SVHC)

Not listed on the UK REACH Candidate List.

GB PIC regulation (Prior Informed Conset)

This substance is not listed on the GB PIC List.

POP Regulation (Persistent Organic Pollutants)

This substance is not listed on the GB POP List.

Ozone Regulation (S.I. No. 168 of 2015)

This substance is not listed on the GB Ozone Depletion List.

Control of Poisons and Explosives Precursors Act

This substance is not listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations.

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations.

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

This substance is not listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations.

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations.

Drug Precursors Regulation (273/2004)

This substance is not listed on the GB Drug Precursors List.

15.1.2. Other Information

VOC content : < 0.1 %

15.2. Chemical safety assessment

No additional information available

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
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	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Abbreviations and acronyms:	
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources

: Supplier's safety documents. Source: European Chemicals Agency, http://echa.europa.eu/.

Safety Data Sheet (SDS), UK

Disclaimer: The accuracy of this information is not guaranteed. The information is believed to be accurate. This information must be used to make an independent determination of the measures necessary to ensure the safety of workers and the environment. Kuraray cannot anticipate all conditions under which this information and the product or other manufacturer's products may be used in conjunction with their product. It is the responsibility of the user to ensure safe conditions when handling, storing and disposing of the product and to accept liability for loss, injury, damage or expense due to improper use. The information in this data sheet is based on current knowledge.