

1. Identification of the chemical and information about the manufacturer or supplier

1.1 Identification of the chemical products

1.1.1 Technical name **Mowital**

Other means of identification

CAS number 70775-95-0

Synonyms Product grades covered by this safety data sheet see below:
BA 20 S

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use For industrial use only. Additive/binder for primer. Coatings. Lacquer. Printing ink.

Limitations on use None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer

Company Name Kuraray Europe GmbH

1.2.2 Address (post and legal)

Philipp-Reis-Str. 4
D-65795 Hattersheim
Germany

Technical Contact +49-69-305-85729

1.2.3 Telephone, including Emergency consultations and time limits

General Information +49-69-305-85300

Emergency Telephone +49-69-305-6418

1.2.4 E-mail

product-safety@kuraray.com

2. Hazard(s) identification

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

Classification according to GOST 12.1.007-76 The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word None.

2.2.2 Symbols None.

2.2.3 Hazard statement The product does not meet the criteria for classification.

Precautionary statement

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

Response No specific first aid measures noted.

Storage Store in a dry area. Store in a closed container.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards

Fine particles may form explosive mixtures with air. This material does not ignite easily; however, feasible precautions against dust explosion are recommended. Observe good industrial hygiene practices. Prevent dust accumulation to minimize explosion hazard.

Supplemental information None.

Substance(s) formed under the condition of use Not applicable.

3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC)	Mowital
3.1.2 Chemical formula	Not available (70775-95-0)
3.1.3 General description of the composition (taking into account the brand assortment; preparation method)	Not applicable.

3.2 Components

Components	Hygienic standards in the working area					CAS-No.	EC No.
	Concentration by weight (%)	MAC, mg/m ³	TSEL, mg/m ³	Hazard classification			
Polyvinyl acetal	>97	None.	None.	4	70775-95-0	-	

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Class 4 (low-hazard substance)

4. First-aid measures

4.1. Observed symptoms

4.1.1 In case of exposure via inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. May be harmful if inhaled.
4.1.2 In contact with skin	Dust may irritate skin. Components of the product may be absorbed into the body through the skin.
4.1.3 In contact with eyes	Dust may irritate the eyes.
4.1.4 In case of exposure via ingestion	May be harmful if swallowed.

4.2 First-aid measures to be provided to victims

4.2.1 In case of exposure via inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
4.2.2 In contact with skin	Wash off with soap and water. Get medical attention if irritation develops and persists.
4.2.3 In contact with eyes	Do not rub eye. Rinse with water. Get medical attention if irritation develops and persists.
4.2.4 In case of exposure via ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
4.2.5 Contraindications	None known.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting and explosion safety measures and means

5.1 General characteristics of fire-explosion properties	The product is a difficultly burning material according to GOST 12.1.044. The product may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source). Use proper grounding procedures.
5.2 Fire-explosion indicators	Not available.
5.3 Combustion and/or thermal destruction products and hazards arising from these	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.
5.4 Recommended extinguishing media	Water fog. Foam. Dry powder. Carbon dioxide (CO ₂). Apply extinguishing media carefully to avoid creating airborne dust. Use fire-extinguishing media appropriate for surrounding materials.
5.5 Forbidden extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
5.6 Special protective equipment for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
5.7 Specific extinguishing methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

- 6.1.1 General required actions in case of an accident or emergency** Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of dust. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
- 6.1.2 Personal protection equipment in case of the accident** Use personal protection recommended in Section 8 of the SDS.

6.2 Procedures for the elimination of accidents and emergencies

- 6.2.1 Procedures in case of leaks, spills, splashes** Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Do not use compressed air when cleaning. For waste disposal, see Section 13 of the SDS.
- 6.2.2 Actions in case of fire** Use standard firefighting procedures and consider the hazards of other involved materials.

Environmental precautions Environmental manager must be informed of all major spillages.

7. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

- 7.1.1 Technical safety measures** Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Explosion-proof general and local exhaust ventilation.
- 7.1.2 Environmental protection measures** Minimize dust generation and accumulation.
- 7.1.3 Recommended safe handling and transportation advice** Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- Local and general ventilation** Explosion-proof general and local exhaust ventilation.

7.2 Chemical storage requirements

- 7.2.1 Terms and conditions for safe storage** Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
- 7.2.2 Packaging** Store in original tightly closed container.

7.3 Safety measures and storage requirements at domestic use The product is not intended for domestic use.

8. Equipment for monitoring exposure and personal protective equipment

8.1 Parameters of the working area that require monitoring No exposure limits noted for ingredient(s).

8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. In case of insufficient ventilation wear suitable respiratory equipment.

8.3 Worker personal protective equipment

- 8.3.1 General recommendations** Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
- 8.3.2 Respiratory protection** In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
- 8.3.3 Protective equipment**
- Eye/face protection** Risk of contact: Wear approved safety goggles.
 - Hand protection** It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.
 - Other** Wear suitable protective clothing. It is a good industrial hygiene practice to minimize skin contact.
 - Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

8.3.4 Personal protection equipment in case of domestic use The product is not intended for domestic use.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Physical appearance Powder.

Physical state Solid.

Form Powder.

Color Colorless.

Odor Odorless.

Odor threshold Not available.

9.2 Parameters characterizing basic properties of the product

pH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not applicable

Flash point Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Vapor pressure Not applicable.

Vapor density Not applicable.

Density 1,10 (20°C) Approximate.

Viscosity Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) No data available.

Other data

Bulk density Not available.

Dust explosion properties

St class 1

Evaporation rate Not applicable.

Flammability (solid, gas) Combustible dust.

Oxidizing properties Not applicable.

Percent volatile < 2,5 % w/w

10. Stability and reactivity

10.1 Chemical stability Material is stable under normal conditions.

Hazardous decomposition products Carbon oxides.

10.2 Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.3 Conditions to avoid Avoid dust close to ignition sources. Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust generation and accumulation.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Incompatible materials Strong oxidizing agents. Strong acids.

11. Toxicological information

11.1 General exposure characteristics Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may cause temporary irritation.

11.2 Routes of exposure Eye contact. Inhalation. Skin contact. Ingestion.

11.3 Affected/target organs, tissues and systems of humans

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

11.4 Information on health hazards in case of direct exposure to the product and its effect

Effect on upper respiratory tract irritation Dust may irritate throat and respiratory system and cause coughing.

Respiratory or skin sensitization

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Not a skin sensitizer.

Skin corrosion/irritation Dust may irritate skin.

Serious eye damage/eye irritation Dust may irritate the eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

11.5 Information on long-term hazardous health effects

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Mutagenicity Based on available data, the classification criteria are not met.

Cumulativeness None known.

Chronic effects Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

11.6 Acute toxicity data Not expected to be acutely toxic.

Further information Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

12. Environmental impact information

12.1 General description of the impact on the environment An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.2 Routes of exposure to environment Adverse effects may be caused by large spill in the environment as a result of accidents during transportation, storage, use, handling, depressurization of the container or/and the uncontrolled waste disposal.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards Not available.

12.3.2 Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes

Persistence and degradability The product is not expected to be biodegradable.

Bioaccumulative potential The product is not expected to bioaccumulate.

Mobility in soil No data available.

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.

13. Recommendations for waste (residues) disposal

13.1 Safety precautions when handling the waste generated during use, storage, transportation Dispose of in accordance with local regulations.

13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging Dispose in accordance with all applicable regulations.

13.3 Recommendation on the waste disposal generated during its domestic use Dispose of in accordance with local regulations.

Waste from residues / unused products Dispose of in accordance with local regulations.

14. Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation On Air Protection.
On Environmental Protection.
On sanitary and epidemiological welfare of the population.
On technical regulation.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

15.2 International Conventions and Agreements

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

References	<p>IARC Monographs. Overall Evaluation of Carcinogenicity GOST 31340-2013 Labeling of chemicals. General requirements. GOST 30333-2007 Chemical production safety passport. General requirements. GOST 31340-2007 - Labelling of chemicals. General requirements GOST 12.1.007-76 Occupational safety standard system. Noxious substances. Classification and general safety requirements. GOST 12.1.044-89. Occupational safety standards system. Fire and explosion hazard of substances and materials. Nomenclature of substances and materials. Nomenclature of indices and methods of their determination. GOST 12.1.004-91. Occupational safety standards system. Fire safety. General requirements. GOST 12.4.103-83. Occupational safety standards system. Special protective clothes, personal means of hands and legs protection. GOST 32424-2013 Classification of chemicals for environmental hazards. General principles.</p>
Issued by	
Company name	Kuraray Europe GmbH
Further information	The substance is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.
Disclaimer	<p>This safety data sheet was prepared in accordance with JIS Z 7253:2012.</p> <p>This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. Kuraray cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.</p>
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