1/7

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SAFETY DATA SHEET

SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

Name of the hazardous Mowital

chemical substance or mixture
Other means of identification

Common name(s), Product grades covered by this safety data sheet see below: synonym(s) * B 14 S, B 16 H, B 20 H, B 30 HH, B 30 T,

* B 45 H, B 60 H, B 60 HH, B 60 T, B 75 H,

Recommended use of the hazardous chemical substance or mixture, and restrictions of use

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

Recommended restrictions None known.

Suppliers details

Supplier

Company name Kuraray America, Inc.

Address 2625 Bay Area Blvd, Suite 600

Houston, TX 77058-1551

USA

Telephone +1-800-423-9762 (within USA)

+1-281-283-1711 (International)

E-mail info@kurarayamerica.com

Manufacturer

Company nameKuraray Europe GmbHAddressPhilipp-Reis-Str. 4

D-65795 Hattersheim

Germany

Telephone +49-69-305-85300

E-mail product-safety@kuraray.com

Emergency phone number For chemical emergency spill, leak, fire, exposure or accident

Call CHEMTREC day or night

Within USA and Canada: 1-800-424-9300 CCN706984 or

+1 703-527-3887 (collect calls accepted)

SECTION 2. Hazard identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Elements of labeling, including precautionary statements and warning pictograms

Hazard symbols None.
Signal word None.

Hazard statement The substance does not meet the criteria for classification.

Precautionary statement

Prevention Use personal protective equipment as required.

Response No specific first aid measures noted.

Storage Store in a dry area. Store in a closed container. Store away from incompatible materials.

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

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Other hazards which do not result in classification

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

explosion are recommended.

Supplemental information

SECTION 3. Composition/information on ingredients

Substances

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
Polyvinyl butyral		68648-78-2	> 97.5
Water (Impurity)		7732-18-5	< 2.5
Butyraldehyde (Impurity)		123-72-8	< 0.05
Sodium chloride (Impurity)		7647-14-5	< 0.05

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

Polyvinyl butyral can also have CAS no 63148-65-2.

SECTION 4. First-aid measures

Description of necessary first-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Ingestion Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

Contact with dust: Irritation of eyes and mucous membranes. Coughing.

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

SECTION 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid

creating airborne dust. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical

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

Special protective actions 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

Fire fighting

equipment/instructions

General fire hazards

case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk.

The product is not flammable. The product may form dust and can accumulate electrostatic

charges, which may cause an electrical spark (ignition source). Use proper grounding procedures.

SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

Personal precautionary measures, protective equipment and emergency procedure

For non-emergency personnel

Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective

equipment. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Avoid inhalation of dust and contact with skin and eyes. Wear

appropriate personal protective equipment.

Environmental precautions Environmental manager must be informed of all releases.

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Respirable particles.

3/7

Methods and materials for containing and cleaning up spills or releases 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.

SECTION 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. 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. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Provide appropriate exhaust ventilation at places where dust is formed. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges when there is a risk of dust explosion.

Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid inhalation of dust and contact with skin and eyes. Wash hands after handling.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Read and follow manufacturer's

SECTION 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

ACGIH Components	Туре	Value	Form
Dust	TWA	10 mg/m3	Inhalable particles.
US. ACGIH Threshold Limit Values Components	Туре	Value	Form

No biological exposure limits noted for the ingredient(s).

Biological limit values

Control banding approach

Appropriate engineering controls

Dust

Not available.

TWA

recommendations.

Provide sufficient ventilation for operations causing dust formation. Explosion-proof general and local exhaust ventilation. Good general ventilation 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational

3 mg/m3

Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Risk of contact: Wear approved safety goggles.

Skin protection

Hand protection Wear protective gloves.

In full contact: Glove material: Nitrile rubber. Layer thickness: 0.12 mm. Breakthrough time: >=480

min.

In splash contact: Glove material: Nitrile rubber Layer thickness: 0.12 mm Breakthrough time:

>=480 min.

Other Wear suitable protective clothing. It is a good industrial hygiene practice to minimize skin contact.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment

with particle filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Handle in accordance with good industrial hygiene and safety practice. Routinely wash work

considerations

SECTION 9. Physical and chemical properties

Appearance Not available.

Physical state Solid.

Form Powder.

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clothing and protective equipment to remove contaminants.

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Colorless. Color Odorless. Odor Not available. **Odor threshold** Not applicable.

275 - 410 °F (135 - 210 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not applicable

Flash point Not applicable. **Evaporation rate** Not applicable. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not applicable. Vapor pressure Not applicable. Vapor density

1.1 (20°C) Approximate. Relative density

Solubility(ies) Not available. Partition coefficient No data available.

(n-octanol/water)

> 716 °F (> 380 °C) **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Dust explosion properties

St class

Molecular formula (C4H8O.C4H6O2.C2H4O)x

Molecular weight 234.25 g/mol **Oxidizing properties** Not oxidizing < 2.5 % w/w Percent volatile

SECTION 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions that must be avoided

Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust

generation and accumulation.

Strong acids. Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Carbon oxides.

SECTION 11. Toxicological information

Information about likely routes of entry

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Inhalation

Prolonged inhalation may be harmful.

Dust may irritate skin. Skin contact Dust may irritate the eyes. Eye contact

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may

cause temporary irritation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Numerical measures of toxicity (such as acute toxicity estimates)

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Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Respiratory or skin sensitization

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

Skin sensitization Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

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

Specific target organ toxicity repeated exposure

Aspiration hazard

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

Other information Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease

might be aggravated by exposure.

SECTION 12. Ecotoxicological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Toxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

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.

SECTION 13. Disposal considerations

Disposal methods

Disposal instructions Dispose of in accordance with local regulations. Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations.

Dispose of in accordance with local regulations. Contaminated packaging

SECTION 14. Transport information

SCT

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

Mowital

901712 Version #: 04 Revision date: 29-May-2020 Issue date: 12-March-2015

5/7

On inventory (yes/no)*

Yes

6/7

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the hazard This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2015).

Inventory name

chemical substance or mixture

in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not listed.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

Country(s) or region

International Inventories

Australia

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Australian Inventory of Chemical Substances (AICS)

SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

Revision date 29-May-2020

List of abbreviations

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. STEL: Short term exposure limit. TWA: Time weighted average.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

Waterways.

SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011). RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

IMDG Code: International Maritime Dangerous Goods Code.

MARPOL: International Convention for the Prevention of Pollution from Ships.

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^{*}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).

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

Disclaimer

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.

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