Product name: Mowital SDS BRAZIL 1/6

# **kura**ray

## SAFETY DATA SHEET

#### 1. Identification

Name of the substance or mixture (trade name)

Mowital

Synonyms

Product grades covered by this safety data sheet see below:

\* B 14 S, B 16 H, B 20 H, B 30 H, B 30 HH, B 30 T,

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

Major recommended uses for

the substance or mixture

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

Specific restrictions for use of

Not available.

the substance or mixture

Manufacturer/Importer/Distributor information

Supplier

Company name Kuraray America, Inc.

**Address** 2625 Bay Area Blvd, Suite 600

Houston, TX 77058-1551

USA

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

+1-281-283-1711 (International)

E-mail info@kurarayamerica.com

Manufacturer

Company name Kuraray Europe GmbH Address Philipp-Reis-Str. 4

D-65795 Hattersheim

Germany

+49-69-305-85300 **Telephone** 

product-safety@kuraray.com E-mail

**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)

#### 2. Hazards identification

## Classification of the substance or mixture

The classification of the substance or mixture has been performed in accordance with ABNT NBR 14725-2. The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Physical hazards Not classified. **Health hazards** Not classified. **Environmental hazards** Not classified.

#### GHS labeling elements, including precautionary statements

Hazard symbol(s) None. Signal word None.

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

Precautionary statement(s)

Use personal protective equipment as required. Prevention

No specific first aid measures noted. Response

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

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

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

None

## 3. Composition/information on ingredients

#### Substance

Common chemical name or technical name	CAS number	Concentration or concentration range
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.

#### 4. First-aid measures

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

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

Ingestion Most important

symptoms/effects, acute and

delayed

Personal protection for first-aid

responders

Notes to physician

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

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

Provide general supportive measures and treat symptomatically.

### 5. Fire-fighting measures

Means of fire extinguishing

Suitable extinguishing

media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

procedures Protective measures taken by

firefighting crews

Special fire fighting

General fire hazards

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.

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

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

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

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.

be formed.

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.

## 6. Control measures for spills and leaks

## Personal precautions, protective equipment and emergency procedures

To be taken by those who are not involved in rendering emergency services

Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS.

To be taken by those who are involved in rendering emergency services

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.

Methods and materials for containment and cleaning up

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.

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Other issues relating to spills

and releases

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.

Emergency procedures

Wear appropriate protective equipment and clothing during clean-up.

## 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 recommendations.

## 8. Exposure controls/personal protection

**Control parameters** 

Follow standard monitoring procedures.

Occupational exposure limits

**ACGIH** 

Components	Туре	Value	Form
Dust	TWA	10 mg/m3	Inhalable particles.
US. ACGIH Threshold Limit Valu Components	ues Type	Value	Form
Dust	TWA	3 mg/m3	Respirable particles

**Biological limit values** 

Appropriate engineering controls

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

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

Personal protective measures

Eyes and 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.

Respiratory protection

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

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

with particle filter.

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Thermal hazards

Other

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

**Appearance** 

Physical state Solid.
Form Powder.
Color Colorless.
Odor Odorless.

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Odor threshold Not available.

pH Not applicable.

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

Initial boiling point and boiling

temperature range

Not applicable

Flash point

Evaporation rate

Not applicable.

Not applicable.

Not available.

**Relative density** 1.1 (20°C) Approximate.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature  $> 716 \, ^{\circ}\text{F} \ (> 380 \, ^{\circ}\text{C})$ 

Decomposition temperatureNot available.ViscosityNot available.

Other physical and chemical parameters

**Dust explosion properties** 

St class

Molecular formula (C4H8O.C4H6O2.C2H4O)x

Molecular weight 234.25 g/mol
Oxidizing properties Not oxidizing.

Percent volatile < 2.5 % w/w

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

generation and accumulation.

Incompatible materials Strong acids. Strong oxidizing agents.

**Hazardous decomposition** 

products

Carbon oxides.

## 11. Toxicological information

Information on likely routes of exposure

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

Prolonged inhalation may be harmful.

Skin contactDust may irritate skin.Eye contactDust may irritate the eyes.

**Ingestion** May cause discomfort if swallowed

Symptoms Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may

cause temporary irritation.

Acute toxicity Not expected to be acutely toxic.

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

irritation

Respiratory or skin sensitization

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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. Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity Toxic to reproduction 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

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

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

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

might be aggravated by exposure.

## 12. Ecological information

**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.

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

Bioaccumulative potential The product is not expected to bioaccumulate.

Partition coefficient n-octanol / water (log Kow)

No data available

**Bioconcentration factor** 

(BCF)

Not available.

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. Considerations on final disposal

Recommended methods for final destination

Dispose of in accordance with local regulations. Residual waste Dispose of in accordance with local regulations. Contaminated packaging Local disposal regulations Dispose of in accordance with local regulations.

#### 14. Transport information

#### **National regulations**

**ANTT** 

Not regulated as dangerous goods.

International regulations

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

### 15. Regulatory information

**Federal regulations** This chemical product safety data sheet was prepared in accordance with the Brazilian Standard (ABNT NBR 14725-4: (Safety data sheet for chemicals (SDS)).

Chemical Products for the Manufacture and Synthesis of Narcotics and Psychotropic Subject to Control of the Ministry of Justice (Resolution No. 169 of 15 August 2017, Annex I, List D2)

Controlled products that must be reported to the Army (Decree No. 3655, Annex 1, as amended)

Not applicable.

Drug precursors (Ordinance No. 1.274)

Not applicable.

Ozone depleting substances (Decree No. 99.280, Annexes A, B, C and E, as amended)

Not applicable.

#### POPs (Decree No. 5.472 promulgates the Stockholm Convention on persistent organic pollutants)

Not listed.

Use and physiological effects of chemical products (Decree No. 3665, Annex 3)

Not applicable.

#### International regulations

**Montreal Protocol** 

Not applicable.

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

#### 16. Other information

Significant information, yet not specifically related to the

previous sections

Not available.

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

Legends and abbreviations

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. TWA: Time weighted average.

ANTT: National Agency of Land Transport. IATA: International Air Transport Association.

IMDG Code: International Maritime Dangerous Goods Code.

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

STEL: Short term exposure limit.

Disclaimer

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