

1. Identification

Product identifier	Mowital
Other means of identification	
Synonyms	Product grades covered by this safety data sheet see below: Thin Film 050, Thin Film 075, Thin Film 100, Thin Film 250
Recommended use	For industrial use only. Laminates with glass, plastics, wood, ceramics, metal, fabrics, textile fibers and combinations therewith.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Supplier	This document is provided as a courtesy to Canadian importers. For onward sale in Canada, the importer's name, Canadian address and telephone number must be incorporated in the SDS.
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 information	
Company name	Kuraray Europe GmbH
Address	Philipp-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)

2. Hazard identification

Physical hazards	Not classified.
Health hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Exempt (manufactured article).
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	No specific first aid measures noted.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Other hazards	None known.
Supplemental information	This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Polyvinyl butyral		68648-78-2	>99

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

Inhalation Move 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 Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Under normal conditions of intended use, this material does not pose a risk to health.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide (CO₂).

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

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions 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.

Fire fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted. May burn, but does not ignite readily.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Sweep up or gather material and place in appropriate container for disposal.

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

7. Handling and storage

Precautions for safe handling Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands after handling.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials (see section 10 of the SDS). Store in a cool, dry, well-ventilated place. Keep in original container. Read and follow manufacturer's recommendations.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Appropriate engineering controls 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.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Film.
Colour	Colourless.

Odour Odourless.

Odour threshold Not applicable.

pH Not applicable.

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

Initial boiling point and boiling range Not applicable

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 1.1 (20°C) Approximate.

Solubility(ies)

Solubility (water) Not soluble in water.

Partition coefficient (n-octanol/water) Not available.

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

Decomposition temperature Not available.

Viscosity Not applicable.

Other information

Dust explosion properties

St class 1

Explosive properties Not explosive.

Molecular weight 234.25 g/mol

Oxidising properties Not oxidising.

Percent volatile < 1 % 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 Hazardous polymerisation does not occur. No dangerous reaction known under conditions of normal use.

Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents. Strong acids.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No information available.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No adverse effects due to eye contact are expected.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics Under normal conditions of intended use, this material does not pose a risk to health.

Information on toxicological effects

Acute toxicity	No information available.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.
Chronic effects	No other specific chronic health impact noted.

12. Ecological information

Ecotoxicity	This product is an article and is not expected to release hazardous chemicals under normal conditions of use.
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	The product is insoluble in water and has a low mobility in the environment.
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. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

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. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

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List of abbreviations TDG: Transportation of Dangerous Goods.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.

References IARC Monographs. Overall Evaluation of Carcinogenicity

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