

1. Chemical and company identification

Name of chemical (Product name) **Mowital**

Supplier's company name, address and phone number

Supplier

Company name Kuraray Co., Ltd. Tokiwabashi Tower
Address 2-6-4, Otemachi, Chiyoda-ku, Tokyo 100-8115, Japan

Telephone number +81-3-6701-1422

E-mail address pvb_inquiry@kuraray.co.jp

Emergency telephone number +81-3-6701-1422 or + 81-3689-08677(Access Code: 334674)

Recommended use of the chemical and restrictions on use

Intended use For industrial use only. Laminates with glass, plastics, wood, ceramics, metal, fabrics, textile fibers and combinations therewith.

2. Hazards identification

GHS classification

The product is not classified according to GHS.

GHS label elements

Pictograms None.

Signal words 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 which do not result in classification None known.

Supplemental information This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

Main symptoms and emergency overview

Main symptoms Direct contact with eyes may cause temporary irritation.

Emergency overview Not regarded as a health or environmental hazard under current legislation.

3. Composition/information on ingredients

Substance or mixture Substance

Chemical name or generic name	CAS Number	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
Polyvinyl Butyral	68648-78-2	(6)-708	(6)-708	>99

Synonym(s) Product grades covered by this safety data sheet see below:
Thin Film 050, Thin Film 075, Thin Film 100, Thin Film 250

Chemical formula (C₄H₈O.C₄H₆O₂.C₂H₄O)_x (68648-78-2)

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

4. First aid measures

If inhaled Move to fresh air. Call a physician if symptoms develop or persist.

If on skin Wash off with soap and water. Get medical attention if irritation develops and persists.

If in eyes Rinse with water. Get medical attention if irritation develops and persists.

If swallowed 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.
Protection of first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes to physician	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	Water fog. Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide (CO ₂).
Extinguishing media to avoid	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards	During fire, gases hazardous to health may be formed.
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials.
Protection of fire-fighters	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.
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.
Environmental precautions	Environmental manager must be informed of all major spillages.
Methods and materials for containment and cleaning up	Sweep up or gather material and place in appropriate container for disposal.
Prevention of secondary hazards	Clean up in accordance with all applicable regulations.
7. Handling and storage	
Handling	
Technical measures (e.g. Local and general ventilation)	Local exhaust is recommended.
Safe handling advice	Observe good industrial hygiene practices. Wear appropriate personal protective equipment (See Section 8). Wash hands after handling.
Contact avoidance measures	Strong oxidizing agents. Strong acids. For further information, please refer to section 10 of the SDS.
Hygiene measures	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.
Storage	
Safe storage conditions	Store away from incompatible materials (see Section 10 of the SDS). Store in a cool, dry, well-ventilated place. Read and follow manufacturer's recommendations.
Safe packaging materials	Store in original tightly closed container.
8. Exposure controls/personal protection	
Control parameters	Follow standard monitoring procedures.
Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering measures	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.
Personal protective equipment	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Wear appropriate chemical resistant gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
9. Physical and chemical properties	
Physical state	Solid.
Form	Film.

Color	Colorless.
Odor	Odorless.
Odor threshold	Not applicable.
Melting point/freezing point	275 - 410 °F (135 - 210 °C)
Boiling point, initial boiling point, and boiling range	Not applicable
Combustibility	Not available.
Flash point	Not applicable.
Auto-ignition temperature	> 716 °F (> 380 °C)
Decomposition temperature	Not available.
pH	Not applicable.
Kinematic viscosity	Not available.
Solubility(ies)	
Solubility (water)	Not soluble in water.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	Not applicable.
Density and/or relative density	
Density	Not available.
Vapor density	Not applicable.
Particle characteristics	Not available.
Other information	
Dust explosion properties	
St class	1
Evaporation rate	Not applicable.
Explosive properties	Not explosive.
Molecular weight	234.25 g/mol
Oxidizing properties	Not oxidizing.
Percent volatile	< 1 % w/w
Viscosity (Coefficient of viscosity)	Not applicable.

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 polymerization does not occur. No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	None known.

11. Toxicological information

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

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.

Bioaccumulation The product is not expected to bioaccumulate.

Mobility in soil The product is immiscible with water and will sediment in water systems.

Hazardous to the ozone layer No data available.

Other hazardous 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

Residual waste 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.

Local disposal regulations Contract with a disposal operator licensed by the Law on Disposal and Cleaning. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

14. Transport information

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.

National regulations Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Notifiable substances

Not regulated.

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act	Designated combustible material (Synthetic resins, others) (Storage limit: 3000 kg)
Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule	Not regulated.
Air Law, Enforcement Rule	Not regulated.
Explosives Control Act	
Not regulated.	

16. Other information

Bibliography

ECHA: European Chemical Agency.
IARC Monographs. Overall Evaluation of Carcinogenicity
JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012
JIS Z 7252:2014 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”
JIS Z 7253:2012 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS)

This safety data sheet was prepared in accordance with JIS Z 7253:2012.

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.