

## Safety Data Sheet

The content and format of this SDS is accordant with GHS standard

### 1. Identification of the substance/preparation and of the company/undertaking

**.Product name:** PVB Interlayer

**.Application of the substance:** Laminated Glass

### 2. Hazards identification

**.GHS classification according to Annex II**

Health hazards	Environmental hazards	Physical hazards
Acute toxicity (oral)- not classified Acute toxicity (dermal)-not classified Acute toxicity (inhalation)-not classified Skin corrosion/irritation- not classified Serious eye damage/eye irritation- not classified Respiratory sensitizer-not classified Skin sensitizer- not classified Germ cell mutagenicity- not classified Carcinogenicity- not classified Toxic to reproduction- not classified STOT SE-not classified STOT RE- not classified Aspiration hazard- not classified Effects on or via lactation-not classified	Acute hazards to the aquatic environment-not classified Chronic hazards to the aquatic environment- not classified	Explosives-not classified Flammable gases-not classified Flammable aerosols-not classified Gases under pressure- not classified Flammable liquids- not classified Flammable solids-not classified Self-reactive substances and mixtures-not classified Pyrophoric liquids-not classified Pyrophoric solids-not classified Self-heating substances and mixtures-not classified Substances and mixtures, which in contact with water, emit flammable gases-not classified Oxidizing liquids-not classified Oxidizing solids-not classified Organic peroxides-not classified Corrosive to metals-not classified

**.Signal word:** None.

**.Symbol:** None

**.Hazard Statement:**

None.

*Note: This product is generally not hazardous under normal conditions. It is not classified as a hazardous product according to GHS classification.*

**.Prevention Precautionary Statements:**

Not applicable.

**.Response Precautionary Statements:**

Not applicable.

**.Storage precautionary statements :**

Not applicable.

**.Disposal precautionary statements :**

P501: Dispose of contents/container to relevant local and national regulations.

### 3. Composition/information on ingredients

**Product description:** substance (); preparation/mixture ( ✓ )

Ingredient (s)	CAS	EINECS	% by weight
Polyvinyl Butyral	63148-65-2	--	≥97%
Water	7732-18-5	--	≤3%

### 4 First aid measures

**Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:**

**.Eyes Contact:** No special measures as there is no hazard for normal contact. Dust from processing may mechanically irritate eyes, resulting in redness or watering. Flush with water to remove dust particles. Get medical help if irritation persists.

**.Skin Contact:** Not applicable for finished product.

**.Inhalation:** No special measures as there is no hazard for normal contact. Concentrated dust from processing may unpleasant obstruction in the nasal passages. Remove to fresh air.

**.Ingestion:** Do not induce vomiting without professional instruction. Get medical attention immediately.

### 5. Fire-fighting measures

**.Flash point:** Not available

- .Hazard description:** This product is not classified as a flammable solid.
- .Flammable/Explosive Limits-Lower Vol %:** Not applicable
- .Flammable/Explosive Limits-Upper Vol %:** Not applicable
- .Extinguishing Media:** In case of a fire, use dry chemical for small fire; water fog, foam or CO<sub>2</sub> for large fire. Seek advice from local fire-fighting authority.
- .Fire Fighting Equipments:** Firefighters must wear self-contained breathing Apparatus and full protective equipment.
- .Unusual Fire and Explosion Hazards:** None.

## 6. Accidental release measures

- .Personal precautions:** Use proper personal protective equipment as indicated in Section 8.
- .Measures for Cleaning/Collection:**  
Due to the nature of this product, there are no special measures for cleaning and collection.  
Avoid generating dust during collection.
- .Environmental Precautions:** Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.
- .Additional Information:**  
As for safe handling and storage, see Section 7.  
As for personal protection, see section 8.  
As for waste disposal, see section 13.

## 7. Handling and storage

- .Handling:**  
Workers must wear proper protective equipments and must operate strictly according to relative rules.  
Do not breathe mist that may be evolved during processing.
- .Information about fire- and explosion protection:**  
Stay away from ignition sources-no smoking.
- .Storage:**  
**.Requirements to be met by storerooms:** Store it in a well-ventilated, cool and dry store room.  
**.Conditions to be avoided:** Excessive heat and direct sunlight.  
**.Additional Information:** The storeroom should be equipped with proper facilities for accidental leakage and fire.

## 8. Exposure controls/personal protection

Ingredients	OSHA PEL-TWA	ACGIH TLV-TWA

Polyvinyl Butyral CAS : 63148-65-2

Not established

Not established

**.Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**.Personal Protective Equipments:**

**.Protection of Hands:**

Recommend wearing protective gloves for industrial hygienic purpose.



**.Protection of Eyes:**

No special requirements under normal conditions. Wear safety glasses when working in a dusty environment

**.Respiratory Protection:** No special requirements under normal conditions.

**.Protection of Body:**

Recommend wearing uniforms.

**.General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Prevent dust from processing entering eyes.

## 9. Physical and chemical properties

.General Information	
<b>Form:</b>	Film
<b>Color:</b>	Clear, blue, green, grey, etc.
<b>Odor:</b>	Slight odor of plastic
<b>Melting point/Melting range:</b>	>250°C(482° F)
<b>Boiling Range:</b>	Not applicable
<b>.Flash Point:</b>	Not available
<b>.Igniting temperature:</b>	Not available
<b>.Flammable/Explosive Limits-Lower Vol %:</b>	Not applicable
<b>.Flammable/Explosive Limits-Upper Vol %:</b>	Not applicable
<b>.Density:</b>	1.07g/m <sup>3</sup> (water=1)
<b>.Relative Vapor density:</b>	Not available
<b>.Vapor pressure:</b>	Not available
<b>.Solubility in/Miscibility with</b>	
<b>Water:</b>	Insoluble in water
<b>.PH-Value (@25°C) :</b>	Not available
<b>.Viscosity:</b>	Not applicable

## 10. Stability and reactivity

**.Chemical Stability:** Stable under normal temperatures and pressures.

**.Materials to avoid:** Open flame, heat source and strong oxidants.

**.Hazardous Polymerizations:** Will not occur.

**.Hazardous Decomposition Products:** Thermal decomposition products may include but not limited to carbon dioxide, water, butyraldehyde, butyric acid and carbon monoxide.

**.Conditions to Avoid:** Long-time direct sunlight and high temperature.

## 11. Toxicological information

**.Product Toxicity Data:** The toxicity data of this product has not been determined by testing or research, but to our best knowledge and reference, this product is not classified as a toxic chemical.

**LD50:** No data.

**.Contact with Eyes:** No hazard for normal contact. Dust from processing may mechanically irritate eyes, resulting in redness or watering.

- .Contact with Skin:** No hazards for skin contact.
- .Inhalation:** No hazard for normal contact. Fume or dust from burning or processing may be slightly irritating to respiratory system.
- .Ingestion:** As for accidental swallowing, it may cause discomfort from obstruction in intestinal tract.
- .Effects of Overexposure – Chronic:** Not found.
- .Carcinogenicity:** Not classified by IARA, GHS, NTP, ACGIH and EU.
- .Sensitivity:** Not found.
- .Teratogenicity:** Not found.
- .Mutagenicity:** Not found.

## **12. Ecological information**

- .Ecotoxicity:** Not available
- .Bioaccumulative Potential:** Not found.
- .Environmental Protection Measures:**
  - Do not allow product to reach ground water, water course or sewage system.
  - Do not throw it away without permission from relevant authority.

## **13. Disposal considerations**

- Do not allow product to reach sewage system.
- Do not throw it into any open bodies of water.
- Waste recycling must be operated strictly according to relevant regulations.
- Recommend adopt incineration for disposal. Control the release of waste during incineration.

## **14. Transport Information**

### **DOT:**

- .Proper Shipping Name:** Not regulated.
- .Hazard Class:** Not classified.
- .UN Code:** Not regulated.
- .Packing Group:** Not classified.

### **Air-Transportation- Air-Transportation- IATA/ICAO:**

- .Proper Shipping Name:** Not regulated.
- .Hazard Class:** Not classified.
- .UN Code:** Not regulated.

**.Packing Group:** Not classified.

**Sea-Transportation-IMO/IMDG.:**

**.Proper Shipping Name:** Not regulated.

**.Hazard Class:** Not classified.

**.UN Code:** Not regulated.

**.Packing Group:** Not classified.

**.EMS NO.:** Not regulated.

**.Note:**

*Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.*

**15. Regulatory information**

**.Domestic Laws and Regulations:**

**.General rule for classification and hazard communication of chemicals(GB 13690-2009):**

Not regulated.

**.The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):**

Not applicable

**.Dangerous Chemicals List (GB 12268):**

Not listed.

**.International Laws and Regulations:**

**.TSCA (Toxic Substance Control Act):** CAS: 63148-65-2 and CAS: 7732-18-5 are listed on the U.S. Toxic Substances Control Act Chemical Substance Inventory List.

**.Clean Water Act:**

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**.SARA 313:** This product does not contain SARA 313 Toxic Release Chemicals.

**.Proposition 65:** Not applicable

**.Carcinogenicity categories:** Not listed by EPA, IARC and NTP.

## **16. Other information**

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### **References:**

GHS Annex II  
GHS SDS Instruction  
GB13690-2009  
GBT 16483-2008

### **Full description of some acronyms:**

**GHS-Globally Harmonized System of Classification and Labelling of Chemicals**  
**CAS-Chemical Abstracts Service**  
**EINECS-European Inventory of Existing Commercial Chemical Substances**  
**ACGIH- American Conference of Governmental Industrial Hygienists**  
**OSHA-Occupational Safety and Health Administration**  
**IARC- International Agency for Research on Cancer**  
**NTP- The National Toxicology Program**  
**IMO-International Maritime Organization**  
**IMDG-International Maritime Dangerous Goods**  
**IATA-International Air Transport Association**  
**ICAO-International Civil Aviation Organization**  
**TSCA-Toxic Substance Control Act**

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\*\*\*\*\*The End\*\*\*\*\*