PVB Resin B20H

According to EC Directive 91/155/EEC

1. Identification

Product: POLYVINYL BUTYRAL RESIN
Product Name(s): PVB Resin B20H
CAS No. 68648-78-2,
Manufacturer/Supplier Identification
Manufacturer/Supplier: Formula Chemicals Inc.
Emergency telephone number: +886-922582639; +886-2-26685339

2. Hazards Identification

Potential Health Effects
Eyes : Dust may cause mild eye irritation.

Skin : May cause mild irritation in the form of redness, or dermatitis on hypersensitive individuals after prolonged contact.

Ingestion : May cause abdominal discomfort, nausea, vomiting and diarrhea, if swallowed.

Inhalation: Not considered as respiratory hazard under normal use conditions, however, dusting may cause minor irritation to mucous membranes in some individuals. Avoid breathing dusts as much as possible.

Chronic: Not known.

3. Composition / Information on Ingredients

Description : Polyvinyl Butyral Resin

Dangerous Components :
This product is not considered hazardous as defined by 29 CFR 1910.1200 and under the provisions of the Superfund Amendments and Re-authorization Act Title III, Section 311 and 312. However, dusting may occur under certain use conditions and nuisance dusts are regulated in 29 CFR 1910.1200, Table Z-1-A.

4. Emergency and First Aid Procedure

GENERAL INFORMATION
Consult a physician. Show this safety data sheet to the doctor in attendance.
Skin Contact
May cause irritation in the form of redness, burning or dermatitis. Wash thoroughly with soap and water. Seek medical attention if irritation develops
Eye Contact
May cause mild eye irritation, tearing and redness. Immediately flush eyes with plenty of water for 10 minutes, holding the eyelids apart, remove any contact lenses and continue flushing for up to 10

minutes. Seek medical attention if symptoms persist.

Inhalation

Not considered as a respiratory hazard under normal use conditions, however may cause minor respiratory irritation in some individuals. Avoid breathing dust whenever possible. Remove to fresh air and supply oxygen if breathing is difficult. Seek medical attention in case of symptoms.

Swallowed

May be irritating to mouth, throat and stomach. May cause abdominal discomfort, nausea Give water to conscious victims. DO NOT induce vomiting if swallowed except as a last measure. If vomiting occurs lean victim forward to reduce the risk of aspiration into the lungs. Seek medical attention if adverse symptoms develop.

5. Firefighting Measures

Suitable Extinguishing Media: Carbon Dioxide, Dry Chemical, Alcohol Foam and High pressure Water Spray. Use self-contained breathing apparatus in case of major fire to protect from toxic fumes like Carbon Monoxide and Nitrogen oxides..

6. Accidental Release Measures

PERSONAL PRECAUTION: Ventilate the area. Refer to protective measures listed in section 7 and 8.

ENVIRONMENTAL PROTECTION: Collect spillage mechanically, store in a sealed container for disposal. Material should not be permitted to mix into public drainage systems or waterways. Do not flush spilled material down sanitary sewer drains. After picking up the spillage, rinse the area with water..

7. Handling and Storage

Precautions for safe handling

Use appropriate personal protective equipment as specified in Section 8 to avoid contact with skin and eye contact. Handle in a well-ventilated area. Smoking, eating and drinking should be prohibited in application area. Avoid the formation and deposition of dust, take precautionary measures against electrostatic loading, use explosion proof apparatus and fittings, Render inert when adding to organic solvent..

FIRE AND EXPLOSION PRECAUTIONS: As with most organic solids, if a high concentration of dust is suspended in air an explosion hazard may exist. Keep away from sources of ignition; take precautionary measures against electrostatic loading. Do not empty containers over cooking vessels containing combustible gas mixtures. Dust explosion class: STI - Capable of dust explosion

STORAGE: Store in closed containers under cool and dry conditions. Keep away from heat, sparks and open flames. Avoid contact with strong oxidizers. Storage Class: 11 Brennbare Feststoffe

8. Exposure/ Protection method

ENGINEERING CONTROLS: Use in areas with good general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields or goggles when handling this material to protect against dust hazards.

HAND PROTECTION: Use EC approved hand gloves while handling this material.

RESPIRATORY: Respiratory protection is not normally required under normal product use. EC

approved masks to be used to protect from dust inhalation.

BODY PROTECTION: Working clothes must not consist of textiles, which show a dangerous melting behavior in case of fire.

HYGIENIC MEASURES: Contaminated area of the body should be washed with soap and water.

9. Physical and Chemical Data

PHYSICAL STATE	: Solid	Method
APPEARANCE	: Powder	
ODOR	: Odorless	
COLOR	: White	
pH Value	: 7	
VISCOSITY (10% in Ethanol)	: 20-30 Cps @ 20℃ in Brookfield	ASTM D-445
VAPOR PRESSURE	: Not applicable	
VAPOR DENSITY	: NA	
BOILING POINT/Range	: NA	
MELTING POINT /Range	: 105 -125°C @40°C	DIN ISO 4625- Ring &Ball
FLASH POINT (CLOSED CUP)	: >300°F (149°C)	ASTM D-93
AUTOIGNITION TEMP.	: >400 □ C	VDI 12263 (Grower)
EXPLOSION LIMITS IN AIR	: N.D	
SOLUBILITY IN WATER	: Insoluble	
EVAPORATION RATE	: Not applicable	
BULK DENSITY	: 230 to 270 gm/ltr.	DIN ISO 697

10. Stability and Reactivity

CONDITIONS TO AVOID : Heat, open flame or other sources of ignition
MATERIALS TO AVOID : Strong oxidizing agents and acids.
DANGEROUS REACTIONS : Dangerous reactions will not occur. Risk of dust explosion hazard.
HAZARDOUS-DECOMPOSITION PRODUCTS: No hazardous decomposition or polymerization..

11. Toxicological Data:

ACUTE TOXICITY:

Oral LD50 Value : >10000mg/kg. (rat)

Other Directions : According to experience, the product is considered to be harmless to health if handled in the correct manner.

12. Ecological Information

Fish Toxicity (LC50) : >1000mg/l (96hr.) – Zekra Fish (Method- OECD 203/150 346/EEC 84/449/VI, CI)

Bacteria Toxicity (EC50): 100mg/l

ENVIRONMENTAL DATA: According to experience, the material has no harmful effect on the environment Economical data are determined by analogy

13. Disposal Considerations

MATERIAL : In accordance with current regulation may be taken to waste disposal site or incineration plant, after consultation with site operator and or the responsible authority.

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UNCLEANED CONTAINERS : Uncontaminated packaging may be taken for recycling. Completely empty packaging may be treated as household waste. Contaminated packaging should be disposed of as chemical waste.

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14. Transport Data

Not classified according to transport regulations for dangerous goods
(ADR/RID/IMO/IMPG/ICOA/IATA)

15. Regulatory Information

Classification according to Directive 67/548/EC: No hazardous substance or preparation.

R-Phrase(s)	:	NC
S-Phrase(s)	:	NC
Labeling	:	Labeling should be as per EC Directives.

16. Other Information

This data sheet was prepared in accordance with Directive 91/155/EEC. MSDS Prepared by: Formula Chemicals Documentation Department. MSDS Version / Prepared or Revised on: Version 1.0 2019/10/30

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