

18199

膠水 MSDS  
4頁

## MATERIAL SAFETY DATA SHEET

## 一、Product and Company Identification

Product name : Polyvinyl Alcohol
Synonyms : PVA, PVOH, PVAL
Chemical Formula : $[-CH_2CHOH-]_n [CH_2CHOOCCCH_3]_m$
Product Codes : BP28, BP26, BP24, BP22, BP20, BP20H, BP17, BP16, BP14, BP08, BP05, BP04, BP03, BP24A, BP24S, BP20S, BP20A, BP17A, BP05A, BP17G, BP05G, BP05S, BF26, BF24, BF24H, BF24E, BF22E, BF17H, BF17, BF17E, BF17S, BF17W, BF16, BF14, BF08, BF05, BF04, BF03, BF03E, BC03H, BC04H, BC08, BC16, BC20, BC24, BC05R, BC17R, BC24R, TS30, TP17
Supplier Information : HUEI SING ENTERPRISE CO., LTD. 15, KON-HO 2 LANE, PAI DOU, CHANGHWA, TAIWAN, R.O.C.
Emergency phone numbers : Tel: 886-2-25038131, 886-2-25001800

## 二、Composition / Information on Ingredients

Ingredient	CAS Number	Percent (by weight)
Polyvinyl Alcohol	9002-89-5 (Fully hydrolyzed) 25213-24-5 (Partially hydrolyzed)	> 95%
Methyl Alcohol	Methyl Alcohol: 67-56-1	Methyl Alcohol: < 3%
Methyl Acetate	Methyl Acetate: 79-20-9	Methyl Acetate: < 1%

## 三、Hazards Identification

Emergency Overview : CAUTION! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR. NUISANCE DUST.
Adverse Human Health Effects : Inhalation: Dust may be formed under certain conditions of use. Treat as a nuisance dust. Ingestion: Not expected to be a health hazard via ingestion. Skin Contact: Not expected to be a health hazard from skin exposure. Eye Contact: Mechanical irritation only.
Environmental Effects : No information available
Physical and Chemical Hazards : No information available
Specific Hazards : No information available

## 四、First-Aid Measures

Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion : Not expected to require first aid measures.

Skin Contact : Wash exposed area with soap and water.

Eye Contact : Wash thoroughly with running water. Get medical advice if irritation develops.

Protection of First-aiders : No information available

Notes to Physician : No information available

#### 五、 Fire-Fighting Measures

Extinguishing Media : As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Minimum dust cloud ignition temperature: 440°C.

Fire and Explosion Hazards : Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosion concentration 35 g/m<sup>3</sup>. Maximum explosion pressure: 6.26 kg/cm<sup>2</sup>.

Special Firefighting Procedures : No information available

Special Equipment for the Protection of Firefighters : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 六、 Accidental Release Measures

Personal Precautions : Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions : Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water.

Methods for Cleaning Up : Pick up spill for recovery or disposal and place in a closed container.

#### 七、 Handling and Storage

Handling : Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity.

Storage : Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from incompatibilities.

#### 八、 Exposure Controls / Personal Protection

Engineering Measure : Airborne Exposure Limits  
OSHA Permissible Exposure Limit (PEL):  
15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts.  
ACGIH Threshold Limit Value (TLV):  
10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise



Classified (PNOC).

Control parameters :

- Limit values : No information available
- Biological Standards : No information available

Personal Protective Equipment :

- Respiratory Protection : If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.
- Hand Protection : NA
- Eye Protection : Use chemical safety goggles.
- Skin and Body Protection : Wear protective gloves and clean body-covering clothing.

Specific Hygiene Measures : No information available

### 九、Physical and Chemical Properties

Physical State : solid	Form : White to ivory granule or powder
Color : White to ivory	Odor : Mild odor.
pH : 5~7 (4% solution)	Boiling Point/Boiling Range : No information.
Decomposition Temperature : >220°C	Flash Point & Method Used : No information.
Auto Ignition Temperature : No information.	Explosion Properties : Minimum explosion concentration 35 g/m <sup>3</sup> . Maximum explosion pressure: 6.26 kg/cm <sup>2</sup> .
Vapor pressure : No data.	Vapor density : No data.
Density : 1.23 - 1.31	Solubility : Moderately soluble.

### 十、Stability and Reactivity

Stability : Stable under ordinary conditions of use and storage.
Possible Hazardous Reactions Occurring under Specific Conditions : Hazardous polymerization will not occur.
Conditions to Avoid : Heat, flame, ignition sources, dusting and incompatibles.
Materials to Avoid : Strong oxidizers.
Hazardous Decomposition Products : Complete combustion will emit carbon dioxide and water when heated to decomposition. Incomplete combustion gives in addition carbon monoxide and oxidation products, including organic acids, aldehydes and alcohol.

### 十一、Toxicological Information

Acute toxicity : Oral rat LD50: > 20 gm/kg. Investigated as a tumorigen.

Local effects : No data.

Sensitization : No data.

Chronic Toxicity or Long Term Toxicity : No data.

Specific effects : No data.

## 十二、Ecological Information

Possible Environmental Effects, Behavior and Fate : No information available

## 十三、Disposal Considerations

Recommended Methods for Safe and Environmentally Preferred Disposal : Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of as a non-hazardous solid waste.

## 十四、Transport Information

International regulations : This product is not classified as dangerous goods according to the international regulations for transport by land, inland waterway, sea and air.

UN classification number : This product is not classified as dangerous goods according to the international regulations for transport by land, inland waterway, sea and air.

Specific Precautionary Transport Measures and Conditions : This product is not classified as dangerous goods according to the international regulations for transport by land, inland waterway, sea and air.

## 十五、Regulatory Information

Applicable Regulations :

Ingredient/Area	TSCA	EC	Japan	Australia
Methyl Alcohol (67-56-1)	Yes	Yes	Yes	Yes
Polyvinyl Alcohol (9002-89-5)	Yes	No	Yes	Yes

## 十六、Other Information

NFPA Ratings : Health: 0, Flammability: 1, Reactivity: 0

Label Hazard Warning : CAUTION! MAY FORM NUISANCE DUST.

Literature References :