CHARING
长林建业

# MATERIAL SAFEFY DATA SHEET

Version1.4 Date of last alteration:06/13/2025

## 1. Chemical Product and Company Identification

Product Name : Polyvinyl Alcohol
Other name : PVA, PVOH, Poly(Vinyl Alcohol)
Recommended Uses : Paper sizing agent, Warp Sizing in textile, Adhesive
Manfacturer : Shandong Charing Industry Co.,Ltd
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## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation(EC) No 1272/2008
This substance is not classified as dangerous according to Directive 67/548/EEC

### 2.2 GHS label elements, including precautionary statements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent,Bioaccmulative and toxic(PBC), or very persistent and very bioaccumulative(vPvB) at levels Of 0.1% or higher.

## 3. Composition, Information on Ingredients

**Substances**

| Main ingredient | Composition | CAS NO. |
|---|---|---|
| Polyvinyl Alcohol | 100% | 9002-89-5 |

## 4. First Aid Measures

### 4.1 Description of necessary first-aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person.
Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed

if necessary : no data available

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Specific hazards arising from the chemical**

no data available

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Avoid breathing dust. For personal protection see 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so.
Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal. Sweep up and shovel.
Keep in suitable, closed containers for disposal.

## 7. Handling and storage

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Avoid exposure - obtain special instructions before use.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

**8.1 Control parameters**

Occupational Exposure limit values : no data available
Biological limit values : no data available

**8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166.
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Wear impervious clothing.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves.
Gloves must be inspected prior to use.
Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respiratory protection**

Wear dust mask when handling large quantities.

Thermal hazards : no data available

## 9. Physical and chemical properties

| | |
|---|---|
| Physical state Form | : solid material granules, crystals or powder, Odor not defined |
| Colour | : white powder |
| Odour | : no data available |
| Melting point/ freezing point | : 200℃ -lit |
| Boiling point or initial boiling point and boiling range | : NA. Decomposes between 200-250 |
| Flammability | : no data available |
| Lower and upper explosion limit / flammability limit | : no data available |
| Flash point | : no data available |
| Auto-ignition temperature | : no data available |
| Decomposition temperature | : no data available |
| pH | : 5-7 at 4% water solution |
| Kinematic viscosity | : no data available |
| Solubility | : no data available |
| Partition coefficient n-octanol / water (log value) | : no data available |
| Vapour pressure | : no data available |
| Density and/or relative density | : 1.19 to 1.31 g/m3 |
| Relative vapour density | : no data available |
| Particle characteristics | : no data available |

## 10. Stability and reactivity

**10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Heat, humidity, Dust generation.

**10.5 Incompatible materials**

Strong oxidizing and reducing agents, Strong acids and bases.

**10.6 Hazardous decomposition products**

Carbon monoxide, carbon dioxide

## 11. Toxicological information

**Acute toxicity**

| | |
|---|---|
| LD50 Oral - Rat | :＞20.000mg/kg |
| LD50 Dermal-rat | :＞20.000mg/kg |
| Inhalation | : no data available |
| Dermal | : no data available |

Skin corrosion/irritation : no data available
Serious eye damage/irritation : no data available
Respiratory or skin sensitization : no data available
Germ cell mutagenicity : no data available

**Carcinogenicity**

IARC : No component of this product repsent at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity : no data available
STOT-single exposure : no data available
STOT-repeated exposure : no data available
Aspiration hazard : no data available

## 12. Ecological Information

**12.1 oxicity**

Toxicity to fish : LC>1000mg/liter over 48hours exposure on killfish.
Toxicity to daphnia and other aquatic invertebrates : no data available
Toxicity to algae : no data available
Toxicity to microorganisms : no data available

**12.2 Persistence and degradability** : no data available
**12.3 Bioaccumulative potential** : Does not bioaccumulate
**12.4 Mobility in soil** : no data available
**12.5 Other adverse effects** : no data available

## 13. Disposal considerations

**13.1 Disposal methods**

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. Transport information

**14.1 UN Number**

ADR/RID : no data available
IMDG : no data available

**14.2 UN Proper Shipping Name**

ADR/RID : no data available
IMDG : no data available
IATA : no data available

**14.3 Transport hazard class(es)**

ADR/RID : no data available
IMDG : no data available

IATA : no data available

**14.4 Packing group, if applicable**

ADR/RID : no data available
IMDG : no data available
IATA : no data available

**14.5 Environmental hazards**

ADR/RID : no data available
IMDG : no data available

**14.6 Special precautions for user**

no data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

no data available

## 15. Regulatory information

**15.1 Safety, health and environmental regulations specific for the product in question**

| | |
|---|---|
| European Inventory of Existing Commercial Chemical Substances (EINECS) | : Not Listed |
| EC Inventory | : Not Listed |
| United States Toxic Substances Control Act (TSCA) Inventory | : Listed |
| China Catalog of Hazardous chemicals 2015 | : Not Listed |
| New Zealand Inventory of Chemicals (NZIoC) | : Listed |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | : Listed |
| Vietnam National Chemical Inventory | : Listed |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) | : Listed |

## 16. Other information

Abbreviations and acronyms

CAS : Chemical Abstracts Service
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
RID : Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG : International Maritime Dangerous Goods
IATA : International Air Transportation Association
TWA : Time Weighted Average
STEL : Short term exposure limit
LC50 : Lethal Concentration 50%
LD50 : Lethal Dose 50%
EC50 : Effective Concentration 50%

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