Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: Polyvinyl Alcohol
Other Name: PVA, PVOH, Vinyl Alcohol Polymer
Chemical Formula: $(C_2H_4O)n$
CAS No.: 9002-89-5
EC No.: 618-350-7

Recommended use of chemical: Adhesive & binder application; Construction Additives; Tile Adhesive additives; Paper coating and sizing; Textile sizing agent; Water soluble film; Agriculture; Polymer modification application; Ceramic and industrial coatings

Manufacturer:
Hebei Polyvia New Material Technology Co., Ltd.
Add: No. 24 Renmin West Road, Fuxing District, Handan City, Hebei Province, China
Telephone number: +86-17332115955
Email: info@polyvia-material.com
International CHEMTREC, call: +86-17332115955

Section 2: Hazard(s) Identification

GHS Classification
According to available data, Polyvinyl Alcohol is not classified as hazardous under GHS criteria.
Classification:
Physical Hazards: Not classified
Health Hazards: Not classified
Environmental Hazards: Not classified

Section 3: Composition / Information on Ingredients

Component	CAS No.	Concentration
Polyvinyl Alcohol	9002-89-5	≥95%
Residual Moisture	N/M	≤5%

Section 4: First Aid Measures

Eye Contact
Rinse immediately with plenty of clean water for at least 15 minutes.
Remove contact lenses if present and easy to do.
Seek medical attention if irritation persists.

Skin Contact
Wash affected area with soap and water.
No specific treatment required.
Seek medical advice if irritation develops.

Inhalation
Move person to fresh air.
Keep respiratory passages clear.
Seek medical attention if coughing or breathing discomfort continues.

Ingestion
Rinse mouth with water.
Do not induce vomiting.
Seek medical advice if large quantities are swallowed.

Section 5: Fire and Explosion Data

Suitable Extinguishing Media:
Use:
Water spray
Foam
Dry chemical powder
Carbon dioxide (CO_2)

Unsuitable Extinguishing Media:
None known.

Specific Hazards:
Polyvinyl Alcohol is combustible under high temperature conditions.
During combustion, may produce:
Carbon monoxide (CO)
Carbon dioxide (CO_2)
Smoke and irritating fumes

Protective Equipment:
Firefighters should wear:
Self-contained breathing apparatus
Protective firefighting clothing

Section 6: Accidental Release Measures

Personal Precautions
Avoid creating airborne dust.
Ensure adequate ventilation.

Wear appropriate protective equipment.

Environmental Precautions
Prevent large quantities from entering drains or waterways.

Cleaning Methods
Small spill:
Sweep carefully.
Collect into suitable containers.
Large spill:
Use mechanical equipment.
Avoid dust formation.
Reuse or dispose according to regulations.

Section 7: Handling and Storage

Handling
Recommended practices:
Avoid breathing dust.
Avoid contact with eyes.
Use local exhaust ventilation where dust generation occurs.
Keep workplace clean to prevent accumulation.

Storage Conditions
Store:
In a cool and dry place.
Away from moisture.
In tightly sealed original packaging.
Recommended storage temperature:
5–35°C
Avoid:
High humidity
Direct sunlight
Water contamination

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits
No specific occupational exposure limits established for Polyvinyl Alcohol.
General dust exposure limits should be followed.

Engineering Controls
Recommended: Local ventilation
Dust collection systems

Enclosed handling equipment

Personal Protective Equipment (PPE)
Respiratory Protection:
For dusty conditions: Dust mask or respirator (N95 or equivalent)
Hand Protection: Protective gloves recommended.
Eye Protection: Safety glasses with side shields.
Skin Protection: Normal industrial protective clothing.

Section 9: Physical and Chemical Properties

Appearance: White powder / crystalline / flake
Odor: Odorless
Physical State: Solid
pH (4% solution): 5.0–7.0
Melting Point: Approximately 180–230°C
Boiling Point: Not applicable
Flash Point: Not determined
Density: Approx. 1.19–1.31 g/cm³
Solubility: Soluble in water
Water Solubility: Depends on hydrolysis degree
Vapor Pressure: Not applicable
Flammability: Combustible solid

Section 10: Stability and Reactivity Data

Chemical Stability
Stable under normal storage and handling conditions.

Conditions to Avoid
Excessive heat
Open flames
Moisture exposure

Incompatible Materials
Avoid strong:
Oxidizing agents
Strong acids
Strong bases

Hazardous Decomposition Products
Thermal decomposition may generate:
Carbon monoxide

Carbon dioxide
Organic vapors

Section 11: Toxicological Information

Acute Toxicity
Low toxicity expected.
Skin Corrosion / Irritation
Not classified.
Serious Eye Damage / Irritation
Dust may cause temporary mechanical irritation.
Respiratory Sensitization
Not classified.
Germ Cell Mutagenicity
No evidence available indicating mutagenic effects.
Carcinogenicity
Not classified as carcinogenic.
Reproductive Toxicity
No known reproductive hazards.
STOT (Specific Target Organ Toxicity)
No known effects.

Section 12: Ecological Information

Ecotoxicity
Polyvinyl Alcohol has low environmental toxicity.
Persistence and Degradability
PVA is biodegradable under suitable environmental conditions.
Bioaccumulative Potential
Low potential for bioaccumulation.
Mobility in Soil
Water-soluble polymer; mobility depends on environmental conditions.

Section 13: Disposal Considerations

Dispose of according to:
Local regulations
National environmental requirements
Recommended methods:
Recycling where possible
Industrial waste treatment
Controlled incineration if required
Do not discharge large amounts into waterways.

Section 14: Transport Information

UN Number: Not regulated.
Proper Shipping Name: Polyvinyl Alcohol
Transport Hazard Class: Not classified.
Packing Group: Not applicable.
Marine Pollutant: No
Transportation Regulations:
ADR/RID: Not regulated
IMDG: Not regulated
ICAO/IATA: Not regulated

Section 15: Other Regulatory Information

This product complies with applicable chemical safety regulations.
Relevant regulations may include:
GHS Classification System
REACH Regulation (EC) No 1907/2006
OSHA Hazard Communication Standard
China GB/T 16483 SDS requirements

Section 16: Other Information

References: Not available.
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