

MATERIAL SAFETY DATA SHEET

Poly(vinyl alcohol)

Section 1 - Chemical Product and Company Identification

MSDS Name:	Poly(vinyl alcohol), 88% hydrolyzed, average M.W. 22000
Synonyms:	PVA
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
For information in the INDIA, call:	Tel: +91 - 22 - 2275 5555 / 6184 0000, Fax: +91 - 22 - 2275 5556 / 6184 0001

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
9002-89-5	Poly(vinyl alcohol)		unlisted

Hazard Symbols:	None listed
Risk Phrases:	None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye:	May cause eye irritation.
Skin:	May cause skin irritation.
Ingestion:	May cause irritation of the digestive tract.
Inhalation:	May cause respiratory tract irritation.
Chronic:	

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will form explosive mixtures with air.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:	
➤	Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	
➤	CAS# 9002-89-5:
Personal Protective Equipment	
Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Powder
Color:	off-white - slightly yellow
Odor:	odorless
pH:	5-7 (4% aq. solution.)
Vapor Pressure:	Not available
Viscosity:	4-6 mPa.s @20 deg C
Boiling Point:	Not available
Freezing/Melting Point:	200 deg C (decomposes)
Autoignition Temperature:	580 deg C (1,076.00 deg F)
Flash Point:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	
Solubility in water:	Soluble in hot water
Specific Gravity/Density:	
Molecular Formula:	--
Molecular Weight:	--

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, heat.
Incompatibilities with Other Materials	Strong oxidizing agents, acids, bases, active metals, sodium hypochlorite, calcium hypochlorite, phosphates.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 9002-89-5: TR8100000 TR8101000
LD50/LC50:	RTECS: CAS# 9002-89-5: Oral, mouse: LD50 = 14700 mg/kg; Oral, mouse: LD50 = 14270 mg/kg; Oral, rat: LD50 = >20 gm/kg; Oral, rat: LD50 = 23854 mg/kg; Other: Skin, rabbit : LD50 >2000 mg/kg
Carcinogenicity:	Poly(vinyl alcohol) - IARC: Group 3 (not classifiable)
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity:	Fish: Fathead Minnow: LC50 > 40g/l; 96H; Fish: Bluegill/Sunfish: LC50 > 10000 mg/l; 96H; Daphnia: Daphnia: LC50 = 8300 mg/l; 96H;
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Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
➤ S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
➤ CAS# 9002-89-5: 1
Canada
➤ CAS# 9002-89-5 is listed on Canada's DSL List
US Federal
➤ TSCA
➤ CAS# 9002-89-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	July 26, 2015
Revision #2 Date	

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