

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification		
Product Name	Poly Vinyl Alcohol (PVA) PVA 1799	
CAS Number	9002-89-5	
Chemical Formula	[C2H4O]n	
Company Name	CAMACHEM (Part of CAMAL Group)	
	3F Jinlong East Beijing Station Road Chaoyang	
	District, Beijing, China	
Contact	sales@camachem.com	
Company Website	www.camachem.com	
Section 2: Composition and Information Name	Poly(Vinyl Alcohol)	
CAS#	9002-89-5	
% by Weight	98 ~ 99%	
Section 3: Hazards Identification		
Potential Acute Health Effects:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects:	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition	
Section 4: First Aid Measures		
Eye Contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.	



Contact: <u>sales@camacnem.com</u>	
Skin Contact:	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Serious Skin Contact:	Not available.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation:	Not available.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion:	Not available.
Section 5: Fire and Explosion Data	
Flammability of the Product:	May be combustible at high temperature.
Auto-Ignition Temperature:	Not available.
Flash Points:	OPEN CUP: 79°C (174.2°F).
Flammable Limits:	Not available.
Products of Combustion:	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances:	Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances:	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.
Fire Fighting Media and Instructions:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards:	Not available.
Special Remarks on Explosion Hazards:	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Section 6: Accidental Release Measures	
Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China www.camachem.com



Contact: <u>sales@camachem.com</u>	
Section 7: Handling and Storage	
Precautions:	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. est. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.
Storage:	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Section 8: Exposure Controls/Personal Pr	rotection
Engineering Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection:	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits:	Not available.
Section 9: Physical and Chemical Proper	ties
Physical state and appearance:	Solid. (Powdered solid. Amorphous solid powder.)
Odor:	Odorless.
Taste:	Not available.
Molecular Weight:	(44.05)n g/mole
Color:	Off-white. White. Colorless.
pH (1% soln/water):	Not available.
Boiling Point:	Not available.
Melting Point:	Softens at about 200°C (392°F) with decomposition. Decomposition @ 228 deg. C.
Critical Temperature:	Not available.
Specific Gravity:	1.19-1.31(Water = 1)
Vapor Pressure:	Not applicable.
Vapor Density:	Not available.

CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China

www.camachem.com



Contact: <u>sales@camachem.com</u>		
Volatility:	Not available.	
Odor Threshold:	Not available.	
Water/Oil Dist. Coeff.:	Not available.	
Ionicity (in Water):	Not available.	
Dispersion Properties:	See solubility in water.	
Solubility:	Soluble in cold water, hot water. Insoluble in diethyl ether, acetone, petroleum solvents, aromatic hydrocarbons, esters. Practically insoluble in animal and vegetable oils and chlorinated hydrocarbons.	
Section 10: Stability and Reactivity Data		
Stability:	The product is stable.	
Instability Temperature:	Not available.	
Conditions of Instability:	Heat, ignition sources, flame, excess dust generation, incompatible materials.	
Incompatibility with various substances:	Reactive with oxidizing agents, metals, acids, alkalis.	
Corrosivity:	Non-corrosive in presence of glass.	
Special Remarks on Reactivity:	Incompatible with oxidizing agents (perchlorates, nitrates, etc.), reactive metals (sodium, calcium, zinc. etc.), sodium or calcium hypochlorite, materials reactive with hydroxyl compounds. Reaction with peroxides may result in violent decomposition of peroxide possibly creating and explosion.	
Special Remarks on Corrosivity:	Not available.	
Polymerization:	Will not occur.	
Section 11: Toxicological Information		
Routes of Entry:	Inhalation. Ingestion.	
Toxicity to Animals:	Acute oral toxicity (LD50): 14700 mg/kg [Mouse]. Acute oral toxicity (LD50): > 20000 mg/kg [Rat].	
Chronic Effects on Humans:	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.	
Other Toxic Effects on Humans:	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals:	Not available.	
Special Remarks on Chronic Effects on Humans:	May cause cancer (tumorigenic) based on animal studies. No human data found at this time.	
Special Remarks on other Toxic Effects on Humans:	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Ingestion: May cause gastrointestinal (digestive) tract irritation. May affect behavior/central nervous system (symptoms may include general depressed activity, altered sleep time, muscle weakness). May also affect blood and metabolism. Inhalation: May cause respiratory tract irritation.	

CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China www.camachem.com



Contact. <u>sales@camachem.com</u>		
	Chronic Potential Health Effects: Inhalation or ingestion for prolonged period of time may affect blood and metabolism, and behavior. May cause cancer (tumorigenic) based on animal studies. No human data found at this time	
Section 12: Ecological Information		
Ecotoxicity:	10000 mg/l 96 hours [Bluegill Sunfish]. >40000 mg/l 96 hours [Fatthead Minnow].	
BOD5 and COD:	Not available.	
Products of Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation:	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation:	Not available.	
Section 13: Disposal Considerations		
Waste Disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Section 14: Transport Information		
DOT Classification:	Not a DOT controlled material (United States).	
Identification: :	Not applicable.	
Special Provisions for Transport:	Not applicable.	
Section 15: Other Regulatory Information Federal and State Regulations: TSCA 8(b) inventory: Polyvinyl alcohol		
Other Regulations:	Not available.	
Other Classifications:		
WHMIS (Canada):	Not controlled under WHMIS (Canada).	
DSCL (EEC):	This product is not classified according to the EU regulations. Not applicable.	
HMIS (U.S.A.):	Health Hazard: 1 Fire Hazard: 2 Reactivity: 0 Personal Protection: E	
National Fire Protection Association (U.S.A.):	Health Hazard: 0 Fire Hazard: 2	

CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China www.camachem.com



	Reactivity: 0 Personal Protection:	
Protective Equipment:	Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent Safety glasses.	
Section 16: Other Information		
References:	Not available.	
Other Special Considerations:	Not available.	
Created:	01/01/2021 16:45 PM	
Last Updated:	02/01/2021 1:15 PM	

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.