

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Date of Issue: 09/30/2019

Version: 1.0

SECTION 1: IDENTIFICATION

Product Form: Substance Product Name: Polyvinyl Alcohol CAS-No.: 9002-89-5 Formula: (C2-H4-O)x-

1.2. Intended Use of the Product No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Quality Science Labs, LLC P.O. Box 159, 37888 Highway 24 Lake George, CO 80827 Tel: 866.700.1884 www.qualitysciencelabs.com

1.4. Emergency Telephone Number

Emergency Number

: CHEMTREC 24 Hour Emergency: Phone Number (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Comb. Dust

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US Labeling Signal Word (GHS-US)

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- Hazard Statements (GHS-US) Supplemental Information
- : Warning
- : May form combustible dust concentrations in air.
- : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Prevent dust accumulation (to minimize explosion hazard). Avoid generating dust.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name

CAS

: Polyvinyl Alcohol

-No.	:9002-89-5	

Name	Synonyms	Product Identifier	%	GHS US classification
Polyvinyl alcohol	Ethenol, homopolymer / Vinyl alcohol polymer / POLYVINYL ALCOHOL / Polyethenol	(CAS-No.) 9002-89-5	100	Comb. Dust

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

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First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible Dust.

Explosion Hazard: Dust explosion hazard in air.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Other Information: Risk of dust explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Use only non-sparking tools. Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

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7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Oxidizing agent.

7.3. Specific End Use(s) No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.
- Personal Protective Equipment

Materials for Protective Clothing

Hand Protection

Eye and Face Protection

Respiratory Protection

Skin and Body Protection

Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



: Chemically resistant materials and fabrics.

When using, do not eat, drink or smoke.

- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

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Physical State	: Solid
Appearance	: White to cream colored powder
Molecular mass	: 44.0526 g/mol
Odor	: Odorless
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: 79 °C (174.2 °F)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: 200 °C (392 °F)
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available

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Relative Vapor Density at 20°C	: No data available			
Relative Density	: No data available			
Specific Gravity	: 1.27 - 1.31			
Solubility	: No data available			
Partition Coefficient: N-Octanol/Water	: No data available			
Viscosity	: No data available			
9.2. Other Information No additional inf	formation available			
SECTION 10: STABILITY AND REACTIVIT	Υ			
10.1. Reactivity: Hazardous reactions will				
-	ommended handling and storage conditions (see section 7).			
-				
•	, extremely high or low temperatures, and incompatible materials. Sparks, heat,			
open flame and other sources of ignition. Dust				
10.5. Incompatible Materials: Oxidizing a				
	None expected under normal conditions of use.			
SECTION 11: TOXICOLOGICAL INFORMA	-			
11.1. Information on Toxicological Effe				
Acute Toxicity (Oral): Not classified				
Acute Toxicity (Dermal): Not classified				
Acute Toxicity (Inhalation): Not classified				
Polyvinyl alcohol (9002-89-5)				
LD50 Oral Rat	> 20 g/kg			
Skin Corrosion/Irritation: Not classified				
Serious Eye Damage/Irritation: Not classified				
Respiratory or Skin Sensitization: Not classified	Ч			
Germ Cell Mutagenicity: Not classified	~			
Carcinogenicity: Not classified				
Polyvinyl alcohol (9002-89-5)				
IARC group	3			
Reproductive Toxicity: Not classified				
Specific Target Organ Toxicity (Single Exposure	e): Not classified			
Specific Target Organ Toxicity (Repeated Expo	sure): Not classified			
Aspiration Hazard: Not classified				
Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.				
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.				
Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.				
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.				
Chronic Symptoms: None known.				
SECTION 12: ECOLOGICAL INFORMATIO	DN			
12.1. Toxicity				
Ecology - General : N	Iot classified.			
12.2. Persistence and Degradability				
Polyvinyl Alcohol (9002-89-5)				
Persistence and Degradability	Not established.			
12.3. Bioaccumulative Potential				
Polyvinyl Alcohol (9002-89-5)				
Bioaccumulative Potential	Not established.			
12.4. Mobility in Soil No additional infor	mation available			
12.5. Other Adverse Effects				
Other Information	: Avoid release to the environment.			

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations		
Polyvinyl Alcohol (9002-89-5)		
SARA Section 311/312 Hazard Classes	Physical hazard - Combustible dust	
Polyvinyl alcohol (9002-89-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the	
	Chemical Data Reporting Rule, (40 CFR 711).	

15.2. US State Regulations Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION		
Date of Preparation or Latest Revision	: 09/30/2019	
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200	
GHS Full Text Phrases:		

Comb. Dust

Combustible Dust

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)