# MATERIAL SAFETY DATA SHEET

# **Section 1 - Chemical Product and Company Identification**

MSDS Name: Polyvinyl Alcohol

Catalog Numbers: S72223B, S80128-1, S80128-2, S80128-3, S801281, S801283, S93327, S93328

**Synonyms:** PVA; Alkotex; Covol; Gelvatol; Lemol; Vinol.

Company Identification: Fisher Scientific

One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call:201-796-7100Emergency Number US:201-796-7100CHEMTREC Phone Number, US:800-424-9300

#### Section 2 - Composition, Information on Ingredients

-----

CAS#: 9002-89-5 Chemical Name: Polyvinyl alcohol

%: 100.0 EINECS#: unlisted

\_\_\_\_\_

Hazard Symbols: None listed

Risk Phrases: None listed

# **Section 3 - Hazards Identification**

## **EMERGENCY OVERVIEW**

Caution! May cause eye, skin, and respiratory tract irritation. Target Organs: No data found.

**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: None

# **Section 4 - First Aid Measures**

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and

shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical aid.

**Notes to** Treat symptomatically and supportively.

Physician:

## **Section 5 - Fire Fighting Measures**

**General** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient

concentrations can form explosive mixtures with air. During a fire, irritating and highly

toxic gases may be generated by thermal decomposition or combustion.

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Extinguishing Media:

**Autoignition** Not applicable.

Temperature:

Flash Point: 79 deg C ( 174.20 deg F)

Explosion N/A Limits: Lower: Explosion N/A Limits: Upper:

NFPA Rating: health: 0; flammability: 2; instability: 0;

## Section 6 - Accidental Release Measures

**General** Use proper personal protective equipment as indicated in Section 8.

Information:

Spills/Leaks: Very fine particles can cause a fire or explosion. Eliminate all ignition sources. Clean up

spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Use a spark-proof tool. Provide ventilation.

# Section 7 - Handling and Storage

Handling: Wash hands before eating. Minimize dust generation and accumulation. Avoid breathing

dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly

closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from

incompatible substances.

#### Section 8 - Exposure Controls, Personal Protection

## **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

+			
Chemical Name Final PELs	ACGIH	NIOSH	OSHA -
	-		
   Polyvinyl alcohol listed	•	none listed	none
++			

OSHA Vacated PELs: Polyvinyl alcohol: None listed

# **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin. Wear appropriate

protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. 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: white to cream Odor: odorless

pH: neutral to acidic

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 200 deg C ( 392.00°F)

**Decomposition Temperature:** 

Solubility in water: soluble Specific Gravity/Density: 1.19

Molecular Formula: [-C2-H4-O-]x

Molecular Weight:

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. **Conditions to Avoid:** Incompatible materials, dust generation, excess heat.

Incompatibilities with Other

Materials

Strong oxidizing agents, acids, bases, 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;

U

**Carcinogenicity:** Polyvinyl alcohol - IARC: Group 3 (not classifiable)

Epidemiology: No information found Teratogenicity: No information found Reproductive: No information found Neurotoxicity: No information found Mutagenicity: No information found

Other: The toxicological properties have not been fully investigated.

#### **Section 12 - Ecological Information**

## Not available

# **Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

## **Section 14 - Transport Information**

Shipping Name: Please contact Fisher Scientific for shipping information

Hazard Class: **UN Number:** Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

# **Section 15 - Regulatory Information**

## **US Federal**

**TSCA** 

CAS# 9002-89-5 is listed on the TSCA

Inventory.

Health & Safety Reporting None of the chemicals are on the Health & Safety Reporting List.

List

**Chemical Test Rules** None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New** 

**Use Rule** 

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous** Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302

**Extremely Hazardous** 

Substances

None of the chemicals in this product have a TPQ.

**SARA Codes** CAS # 9002-89-5: acute, chronic.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material

does not contain any Class 1 Ozone depletors. This material does not

contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances **Clean Water Act:** 

under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed

as Toxic Pollutants under the CWA.

OSHA:

**STATE** Polyvinyl alcohol is not present on state lists from CA, PA, MN, MA, FL, or

California Prop 65

California No Significant None of the chemicals in this product are listed.

Risk Level:

**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 Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 9002-89-5 is not listed on Canada's Ingredient Disclosure List.

# **Section 16 - Other Information**

MSDS Creation Date: 12/12/1997 Revision #3 Date 7/14/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.