



**QINGDAO SANHUAN COLORCHEM CO., LTD.**

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MATERIAL SAFETY DATA SHEET

Section 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

PRODUCT NAME: POLYVINYL ALCOHOL

GRADES: 088-05

CHEMICAL FORMULA:  $(C_2H_4O)_n$

CAS #: 9002-89-5

EC #: -

USE OF THE SUBSTANCE/PREPARATION:

To produce solvent resistant gloves, and laminated with other plastic films. Films and coatings resistant to gasoline. Water soluble films and packaging. Used in preparation of polyvinyl acetal; production of plastic materials, foils, hoses, fibres; textile sizes, mould release and parting agents. Also used in printing inks for plastics and glass, pharmaceutical finishing, cosmetics, laminating adhesives, cements and mortars. Used as emulsifying agent, thickener and stabiliser.

COMPANY /UNDERTAKING IDENTIFICATION:

QINGDAO SANHUAN COLORCHEM CO., LTD.

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Section 2 - HAZARDS IDENTIFICATION

Classification:

According to annex I of DIRECTIVE 67/548/EEC

This substance is not classified in the Annex I of Directive 67/548/EEC.

According to DIRECTIVE 67/548/EEC criteria

Physical/Chemical Hazards: None.

Health Hazards: None.

Environmental Hazards: None.

According to EU CLP 2008

For physical-chemical properties: None.

For health hazards: None.

For environmental hazards: None.

Labelling:

Signal word: -

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**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Name	CAS No.	EC No.	Conc.	Classification	
				CLP	67/548/EEC
Polyvinyl Alcohol	9002-89-5		90~95%		
Residuals as:					
Methanol	67-56-1	200-659-6	0.5%-2.8%	Flam. Liq. 2 Acute Tox. 3 (oral, skin, inhalation) STOT SE 1	F; T R11 R23/24/25 R39/23/24/25
Water	7732-18-5	231-791-2	≤3%		
Methyl Acetate	79-20-9	201-185-2	≤2%	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	F; Xi R11 R36 R67
Sodium Acetate	127-09-3	204-823-8	≤2.3%		

**Section 4 - FIRST AID MEASURES****EYE**

Flush eye with water. Seek medical attention if necessary.

**SKIN**

If contact with hot material, cool the burn area by flushing with large amounts of water. DO NOT attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available and seek medical attention.

**INHALED**

Remove from contaminated area. Seek medical attention if complaints.

**SWALLOWED**

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**NOTES TO PHYSICIAN**

Treat symptomatically.

**Section 5 - FIRE FIGHTING MEASURES****SUITABLE EXTINGUISHING MEDIA:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight large fires with water spray or alcohol resistant foam.



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### UNSUITABLE EXTINGUISHING MEDIA:

Direct jet water.

### SPECIAL HAZARDS:

Combustible solid which burns but propagates flame with difficulty. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit acrid fumes of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS.

Glasses: Chemical goggles

Gloves: Chemical protective gloves.

Respirator: Self-sustained breathing apparatus

## Section 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Remove ignition sources. Avoid generating dust. Product forms slippery surface when combined with water. Control personal contact by using protective equipment. Personal protective equipments refer to Section 8.

### METHODS FOR CLEANING UP

For small spillage, shovel up for subsequent safe disposal as required by local, international or country specific regulations.

For large spillage, transfer to a labeled, sealable container for product recovery or safe disposal as required by local, international or country specific regulations.

### ENVIRONMENTAL PRECAUTIONS

Prevent the material or washing water entering water environment.

## Section 7 - HANDLING AND STORAGE

### HANDLING

Stack in a row and keep in a space. Keep container dry. Keep in a dry, clean, and well-ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Avoid accumulation of product in air. Avoid storage exceeding guarantee period. Incompatibility information as indicated in Section 10.

### STORAGE

Avoid generation or accumulation of dusts. Take precautionary measures against static discharges, earth/ground all equipment. Avoid contact with heated or molten product. Do not breathe dust, fumes or vapors from heated product. Use local exhaust ventilation in processing area. Take precautionary measures against direct sunlight and rain drenching during transport. Keep transportation vehicle clean. Avoid packaging destruction and keep away from impurity. Incompatibility information as indicated in Section 10.



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### SPECIFIC USE

None

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

ACGIH: TWA-200 ppm (methanol, Methyl acetate); STEL-250 ppm (methanol, Methyl acetate)

NIOSH: TWA-200 ppm (methanol, Methyl acetate)

OSHA: TWA-200 ppm (methanol, Methyl acetate)

IOELVs: TWA-200 ppm (methanol); STEL-250 ppm (methanol)

WELs: TWA-200 ppm (methanol, Methyl acetate); STEL-250 ppm (methanol, Methyl acetate)

#### ENGINEERING CONTROLS

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### EXPOSURE CONTROLS

##### RESPIRATORY PROTECTION

Use a European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

##### HAND PROTECTION

Use chemical protective gloves (polyethylene, PVC).

##### EYE PROTECTION

Use chemical goggles

##### SKIN PROTECTION

Wear appropriate protective clothing to prevent skin exposure.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Local exhaust ventilation usually required. As much as possible, keep from being washed into surface waters.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### GENERAL INFORMATION

White/slight yellow flaky grain or powder.

#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: Not applicable Boiling Point (°C): Not applicable

Flash Point (°C): Not applicable Flammability (solid or gas): Combustible

Explosive properties: Not applicable Oxidising properties: Not an oxidiser



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Vapour Pressure: Not available Relative Density (water=1): 1.329 at 20°C

Solubility

-water: insoluble -fat: -

Partition coefficient (n-octant/water): Not available

Viscosity: Not applicable Vapour density: Not available

Evaporation rate: Not available

Freezing/Melting Point: 228~230°C

**Section 10 - STABILITY AND REACTIVITY**

Chemical stability:

Stable under normal temperatures and pressures.

**CONDITIONS TO AVOID**

High dust concentrations and sparks.

**MATERIALS TO AVOID**

Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide, carbon dioxide

Hazardous Polymerization:

Not reported.

**Section 11 - TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY Oral (Mouse)**

LD50: 14700 mg/kg

**Intraperitoneal (Mouse) LD50:**

2000 mg/kg

**Oral (Rat) LD50:** 23854 mg/kg

**Oral (Guinea pig) LD50:** 18750

mg/kg

**Dermal (Rabbit) LD50:** >7940

mg/kg

**SKIN/EYE IRRITATION**

Not available.

**SENSITIZATION**

Not available.

**MUTAGENICITY**

Not available.

**CARCINOGENICITY**

Not Listed by ACGIH, NIOSH, IARC, NTP, or OSHA.

**REPRODUCTIVE TOXICITY**

Not available.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSE**



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Not available.

### SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSE

Not available.

### ASPIRATION HAZARD

Not available.

## Section 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

Ecotoxicological data have not been determined specifically for this product. The information given below is based on knowledge of the components and the ecotoxicology of similar products.

### MOBILITY

Floats on water and remains on surface of soil.

### PERSISTENCE AND DEGRADABILITY

Expected to be not inherently biodegradable. Persists under anaerobic conditions.

### BIOACCUMULATIVE POTENTIAL

Not expected to be bioaccumulate.

### RESULTS OF PBT ASSESSMENT

Not classified as PBT or vPvB.

### OTHER ADVERSE EFFECTS

Not available

## Section 13 - DISPOSAL CONSIDERATIONS

According to the European Waste Catalogue, Waste Codes are not product specific but application specific. Waste Codes should be assigned by the User based on the application in which the product is used.

Recycle wherever possible. Bury or incinerate residue at an approved site.

Dispose of in compliance with national, regional, and local provisions.

## Section 14 - TRANSPORTATION INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADR, ADN, IATA, IMDG

## Section 15 - REGULATORY INFORMATION

Not dangerous as defined by 67/548/EEC

RISK PHRASES: -

SAFE PHRASES: -

Not dangerous as defined by the EU CLP 2008.

Lableling: -

Signal Word: --



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Hazard Statement: -

Precautionary statements: -

Supplement Hazard statements: -

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : (EC) No.1907/2006 and (EC) No.1272/2008.

## Section 16 - OTHER INFORMATION

### ABBREVIATION

TLV Threshold Limit Value

TWA Time Weighted Average

ES Exposure Standard

IOELVs Indicative Occupational Exposure Limit Values

WELs Workplace Exposure Limits

STEL Short Term Exposure Limit

RTECS Registry of Toxic Effects of Chemical Substances

IARC International Agency for Research on Cancer

NOEL No observed effect level

MEL Maximum exposure limit

### DISCLAIMER:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.