

# MSDS

According to Regulation(EC) No. 453/2010  
Issue Date : 2011-08-10

SDS11081003  
Version:1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name: POLYVINYL ALCOHOL  
Proper shipping name: Not applicable  
Other means of identification: No data available

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

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 stabilizer.

#### 1.2.2. Uses advised against

No data available.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer: Inner Mongolia Shuangxin Environment-Friendly Material Co., Ltd.  
Address: Mengxi High-Tech Industry Zone, Ordos City, Inner Mongolia, China  
Telephone: +86-477-6431389  
E-mail: export@shuangxingroup.com  
Only representative: REACH Only Representative Services GMBH  
Address: Paul-Gerhardt-Straße 1, D-52072, Aachen  
Telephone: +49 711 27311-170  
Fax: +49 711 27311-559  
E-mail: Wilhem.Pfleger@intertek.com

importer:  
Address:  
Telephone:  
Fax:  
E-mail:

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified.

#### Other adverse physicochemical, human health and environmental effects

Not classified.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable

#### Labelling according to Directive 1999/45/EC [DPD]

Not applicable

### 2.3. Other hazards

No reliable data available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

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## 3.2. Mixtures

Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DPD
Polyvinyl alcohol	9002-89-5	-	-	-	>90	Not classified	Not classified
sodium acetate	127-09-3	204-823-8	-	-	<2.1	Not classified	Not classified
sodium hydroxide	1310-73-2	215-185-5	011-002-00-6	-	<0.2	Metal corrosive 1;H290 Skin Corrosive 1A; H314 Eye damage 1; H318	C; R35
Methanol	67-56-1	200-659-6	603-001-00-X	-	<3.2	Not classified	Not classified

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

**Skin contact:** Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.

**Eye contact:** Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

**Ingestion:** Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

**Advice for the doctor:** Symptomatic treatment.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No reliable data available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Foam.

Dry chemical powder.

Carbon dioxide.

Water spray or fog - Large fires only

### 5.2. Special hazards arising from the substance or mixture

Fire/explosion hazard: Emits toxic fumes under fire conditions.

Main combustion gas: carbon monoxide, carbon dioxide gases and oxide of sulfur.

### 5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Wear suitable protective equipment.

#### 6.1.2. For emergency responders

Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

### 6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

### 6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled solid in suitable container for recovery or disposal, avoid raising dust.

### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid ingestion, inhalation, skin and eye contact. Minimize dust generation and accumulation. Handle in accordance with good industrial hygiene practice and any legal requirements.

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## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container: Metal can or drum. Check all containers are clearly labelled and free from leaks.

Storage incompatibility: Avoid reaction with strong oxidizing agents.

## 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

At this time no TLV has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience). Airborne concentrations must be maintained as low as is practically possible and occupational exposure must be kept to a minimum.

### 8.2. Exposure controls

Appropriate engineering controls Use: process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

General Personal Protection: Goggles, gloves, protective clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	White or light yellow powder
Colour:	White or light yellow
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Melting point:	No data available
Solidification point:	No data available
Boiling point:	No data available
Flash point:	No data available
Relat. evapor. rate comp. to butylacetate:	No data available
Flammability (solid, gas):	No data available
Explosive limits:	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	1.26~1.31g/cm <sup>3</sup>
Solubility:	No data available
Log Pow:	No data available
Self ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

### 9.2. Other information

No reliable data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See section 7.2

### 10.2. Chemical stability

Stable under normal condition.

### 10.3. Possibility of hazardous reactions

See section 7.2

### 10.4. Conditions to avoid

Strong acid, alkali and oxidizing agents.

### 10.5. Incompatible materials

See section 7.2

### 10.6. Hazardous decomposition products

Thermal decomposition products: carbon monoxide, carbon dioxide gases and oxide of sulfur.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity:	No data available
Skin corrosion/irritation:	Sodium hydroxide: Minimum concentration for skin irritation was 5% (50 mg/kg) Minimum dose for intradermal test response was 0.25-0.3% (125-150 µg/kg) Sodium acetate: Not irritating.
Serious eye damage/irritation:	Sodium hydroxide: irritating 2% solution of NaOH. Sodium acetate: Not irritating.
Respiratory or skin sensitisation:	Sodium hydroxide: Not sensitising Sodium acetate: Not sensitising
Germ cell mutagenicity:	Sodium hydroxide: Negative Sodium acetate: Negative
Carcinogenicity:	No data available
Reproductive toxicity:	Sodium hydroxide: No data available Sodium acetate: NOAEL(rat)=50mg/kg bw; LOAEL(rat)>50mg/kg bw
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Sodium hydroxide:  
Invertebrates: EC50(48h, Ceriodaphnia sp.)=40.4mg/l  
Microorganisms: EC<sub>10</sub>(2min, Tetrahymena thermophila)=161mg/l

### 12.2. Persistence and degradability

Sodium acetate:  
Readily biodegradable.

### 12.3. Bioaccumulative potential

Sodium acetate:  
BCF= 3.162 (BCFWIN v2.17). Log BCF= 0.500(regression-based method).

### 12.4. Mobility in soil

Sodium acetate:  
Koc: 1  
Log Koc: 0.000

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal: Observe specific national regulation.

Contaminated packaging: Contaminated, empty containers must be disposed of as chemical waste.

## SECTION 14: Transport information

Domestic transport (RID/ADR): Not regulated under UN Transport of Dangerous Goods.

Sea transport (IMDG): Not regulated under UN Transport of Dangerous Goods.

Air transport (ICAO/IATA): Not regulated under UN Transport of Dangerous Goods.

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - 67/548/EEC, 1999/45/EC, 1272/2008/EEC, 1907/2006/EC, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

#### 15.1.2. International/National regulations

No data available.

### 15.2. Chemical safety assessment

No data available.

## SECTION 16: Other information

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

*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.*