

# Water-Soluble Material Safety Data Sheet (MSDS)

## Water Soluble PVA Film/ Bags

### Section 1 The Product & Manufacturer

1. Name of Product: Water Soluble PVA Laundry Bag/Packaging Bag
2. Characteristic: water soluble and biodegradable.
3. Application: water-soluble bags for infection control and medical disposal, packaging for chemicals.

### Section 2 Chemical Composition

The product is composed of polyvinyl alcohol (PVA/PVOH), plasticizers and additives. The plasticising agent is a compound system, which is mainly composed of high boiling polyhydric alcohol.

The main substances are biodegradable.

Toxic substances are absent.

### Section 3 Information of Dangers

The storage and the handling of the product do not cause danger for people or for environmental.

### Section 4 First-aid Measures

1. In case of skin contact: harmless, no irritation.
2. In case of eye contact: remove from contact, flush with clean water.
3. In case of accidental swallowing: vomit the contents.

### Section 5 Fire fighting Measures

1. The product is not self-inflammable, but it is combustible.
2. Recommended fire extinguisher: atomised water, foam, dry extinguisher and carbon dioxide.
3. Means of protection: fireproof clothes and respirators.

## Section 6 Accident Release Measures

Collect with dry mechanical tools.

## Section 7 Handling and Storage

1. Storage condition: to store the product in clean, non-toxic, damp-proof inner packaging. Aluminium foil is recommended as the inner packing material.
2. Keep far from heat sources.
3. Storage temperature: 15°C-30°C, humidity: 30%-70%
4. Precautions for storage place: natural ventilation.
5. Precautions: avoid any kind of contact with water, as the product is water-soluble.

## Section 8 Exposure Control/ Individual Protection

1. Respiratory protection: Not required
2. Ventilation: Not required, misting environment may require adequate ventilation.
3. Protection gloves: Not required.
4. Eye protection: Not required.
5. Other protective equipments: Not required.

## Section 9 Physical and Chemical Properties

1. Appearance: Form---solid, translucent  
Color---natural/red/yellow/blue, etc.  
Smell---A small amount of odour
2. Physical properties  
Fusion point: >150°  
Inflammability: non detectable
3. Decomposition temperature: >260°
4. Self-ignition: >400°
5. Explosion danger: No
6. PH value: 5-7 (4wt% water solution)
7. Specific weight: 1.1~1.3g/cm<sup>3</sup>

8. Moisture content: the moisture content varies according to the ambient temperature and humidity.

#### **Section 10 Stability and Reactivity**

1. The product is stable in normal environmental conditions.
2. Thermal decomposition starts from 260°C;
3. Avoid contact with flames and strong oxidizing agents.

#### **Section 11 Toxicological Information**

1. Acute Oral Toxicity on rats: above 2,000 mg/kg.
2. Acute Oral Toxicity on fish: the fish did not show any poisoning symptoms.
3. Skin irritation: Not noticed

Note: With adequate use, serious damages for health are not noticed.

#### **Section 12 Ecological information**

1. The product is biodegradable, without any toxic residue.
2. Eco-toxicological: until now, no records of damaging to deputation or treatment plants of biological sewage.

#### **Section 13 Disposal Consideration**

Please refer to local laws and regulations

#### **Section 14 Transport Information**

1. Land expedition: Harmless goods.
2. Carriage by sea: Harmless goods.
3. Air freight: Harmless goods.

#### **Section 15 Regulatory Information**

According to National Industrial Product Safety Standard of the People's Republic of China.

#### **Section 16 Other Information**

While the information and recommendations set forth herein are believed to be accurate. BagCo and the manufacturer assume no liability nor make any

warranty as to completeness or accuracy. Final determination of suitability of any material is sole responsibility of the users. All materials may present unknown hazards and should be used with caution.