# **Material Safety Data Sheet**

**Revision Date: 08/24/2009** Issuing Date: 08/24/2009

### **PVP K-90**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

Company/Undertaking Identification:

DONGGUAN BAOXU CHEMICAL TECHNOLOGY LTD ROOM 1118 CAIJIN BUSINESS BUILDING, NAN CHENG

DISTRICT, DONGGUAN, GUANGDONG, CHINA Tel 769-22821082 Fax 769-22821083 Tel 86-18566530506

**Emergency Telephone:** 86-769-22821082

Prepared By: Product Stewardship

**Product Code:** 

**Product Name:** PVP K-90

Formula: (C6H9NO)x

PVP INCI Name(s):

**Product Use Description:** Personal Care, Performance Chemical

#### 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

POWDERED MATERIALS MAY FORM EXPLOSIVE DUST-AIR MIXTURES.

Off-white Powder

**Hazard Summary** 

**Target Organs:** · None effected.

**Primary Routes of Entry:** Eyes. Skin. Inhalation. Ingestion.

Acute Health Hazard: None known. **Chronic Health Hazard:** None known

**Symptoms of Overexposure** 

Eye Contact: Not hazardous Skin Contact: Not hazardous Ingestion: Not hazardous Not hazardous Inhalation:

| 3. COMPOSITION/INFORMATION ON INGREDIENTS |          |  |
|---|----------|--|
| Components:                               | Weight % |  |
| 2-Pyrrolidinone, 1-ethenyl-,              | 95       |  |
| homopolymer                               |          |  |
| 9003-39-8                                 |          |  |

4. FIRST AID MEASURES

**Eye Contact:** Flush eyes with copious amounts of water.

**Skin Contact:** Wash off with soap and water.

Ingestion: Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical

attention.

**Inhalation:** Not hazardous by inhalation. Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: All types

Combustion/Explosion Hazards: May form explosive dust-air mixture This product has a value less than Pittsburgh coal

dust

Special Protective Equipment For Wear self-contained breathing apparatus and protective suit.

Fire-Fighters:

**6. ACCIDENTAL RELEASE MEASURES** 

**Personal Precautions:** Wear suitable protective equipment.

Methods for Cleaning Up: Clean up promptly by scoop or vacuum. Avoid dust formation. Avoid dust accumulation

in enclosed space.

7. HANDLING AND STORAGE

Handling: Avoid breathing dust. Avoid dust formation. Avoid dust accumulation in enclosed space.

Storage: Keep container tightly closed. Keep in a dry, cool place. Keep away from direct

sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:** Use only in well-ventilated areas.

**Respiratory Protection:** Use only in well-ventilated areas.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Safety glasses.

**Exposure Limits:** 

| Components:                  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) | U.S OSHA - Final PELs - Time Weighted<br>Averages (TWAs) |
|------------------------------|--|--|
| 2-Pyrrolidinone, 1-ethenyl-, | No TLV/TWA Established   | No TLV/TWA Established                                   |
| homopolymer                  |  |  |
| 9003-39-8 (95)               |  |  |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Off-white

Odor: Not determined

Odor Threshold: Not available

**pH:** 3.0-7.0 (5% solution)

Specific Gravity: Not determined

Bulk Density: 0.3-0.4 g/cc

Boiling Point (°F):

Melting/Freezing Point (°F):

Not determined

Vapor Pressure:

Not determined

Solubility: Highly soluble in Water

Flash Point (°F): Not determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid dust

formation. Avoid dust accumulation in enclosed space.

Materials to Avoid: Strong oxidizing agents, Strong reducing agents

Hazardous decomposition

products:

nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Toxicity Test:

Acute Oral Toxicity: >10,000 mg/kg (Rat)

**Eye Irritation:** Non-irritating to rabbit eye.

**Skin Irritation:** Non irritating (Human RIPT).

Sensitization: Human RIPT: Non-sensitizing

Mutagenicity: Non-mutagenic. (Ames Assay; Dominant Lethal Test on mice; L5178Y Mouse (TK+/-)

Lymphoma Assay; Bone Marrow Chromosomal Aberration Assay; BALB/C 3T3

Transformation)

Reproductive/Developmental

Toxicity:

Various studies of the reproductive toxicity of PVP in rats and rabbits produced no

evidence of embryo toxicity or teratogenicity.

Carcinogenicity: Exposure of dogs and various rodent species to PVP via the diet, injection and implant

at up to 10% produced no signs of carcinogenic activity.

Exposure up to 10% in the diets of rats and dogs produced no signs of toxicity or

carcinogenic potential.

No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

Other Information: Sub-Chronic Oral Toxicity: Exposure up to 10% in the diets of rats produced no signs

of toxicity.

Exposure up to 10% in the diet of dogs produced no signs of toxicity.

12. ECOLOGICAL INFORMATION

Persistence and Degradability: Not readily biodegradable (11% after 28 days)

**Ecotoxicity:** Juvenile Turbot: 96-hr. LC50 >1,000 mg/L

Corophium Volutator; 10-Day LC50 >1,000 mg/L

Marine Algae; 72-hr. EC50 >1,000 mg/L

Salmon; PVP at up to 5% in the diet during smolt produced no signs of toxicity.

Salmon; PVP at up to 5% in the diet for 112 days did not produce any signs of toxicity.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Land Transport:

DOT (Non-Bulk):

Not regulated DOT

DOT (Bulk):

Air Transport (IATA):

Not regulated IATA

Sea Transport (IMO):

Not regulated IMDG

TDG (Canada):

Not regulated TDG

15. REGULATORY INFORMATION

TSCA Inventory List: This product and/or its components are listed or exempt from the TSCA Inventory

California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: This product does not contain any chemicals known to State of California to cause

cancer, birth, or any other reproductive defects.

WHMIS Ingredient Disclosure List: None of the components of this product is listed on WHMIS Ingredient Disclosure list.

Canada DSL Inventory List: This product and/or its components are listed or exempt from the DSL Inventory

Canada NDSL Inventory List: This product and/or its components does not comply with NDSL

Japan Inventory of Existing & New Chemical Substances (ENCS):

This product and/or its components are listed or exempt from the ENCS

Australia Inventory of Chemical

Substances (AICS) List:

This product and/or its components are listed or exempt from the AICS Inventory

**European Inventory of Existing Commercial Chemical** 

Substances (EINECS):

This product and/or its components does not comply with EINECS

EU List of Notified Chemical

Substances (ELINCS)

This product and/or its components does not comply with ELINCS

EPCRA (SARA Title III): Not applicable

16. OTHER INFORMATION

**NFPA Rating:** Health: 0 Flammability: 1 Reactivity: 0.

HMIS RATING:

HEALTH 0 FLAMMABILITY 1 PHYSICAL HAZARD 0

Prepared By: Product Stewardship

MSDS sections updated: This data sheet contains changes from the previous version in section(s) 1,2,3,11

**Legend:** N.Av.= Not Available; N.A.= Not Applicable

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\*\*\*End of Safety Data Sheet\*\*\*