

Material Safety Data Sheet

Revision Date: 08/24/2009

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PVP K-15/17/30/90

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

Company/Undertaking Identification: Chanjao Longevity Co., Ltd.
50 Ramindra 14, Bangkhen, Bangkok 10230 THAILAND
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Emergency Telephone: CHEMTREC: 1-800-424-9300 or 703-527-3887 (Outside of the USA) (Spill Related Emergencies)
PROSAR: 1-800-241-7439 (Health Related Emergencies)

Prepared By: Product Stewardship

Product Code: -

Product Name: PVP K-15/17/30/90

Formula: (C₆H₉NO)_x

INCI Name(s): PVP

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

Inhalation: Not hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Weight %
2-Pyrrolidinone, 1-ethenyl-, homopolymer CAS 9003-39-8	>95

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 Fire-Fighters: Wear self-contained breathing apparatus and protective suit.

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 Weighted Averages (TLV-TWA)	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
2-Pyrrolidinone, 1-ethenyl-, homopolymer CAS: 9003-39-8 (>95%)	No TLV/TWA Established	No TLV/TWA Established

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):	Not determined
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:	<p>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.</p> <p>Exposure up to 10% in the diets of rats and dogs produced no signs of toxicity or carcinogenic potential.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Other Information:	<p>Sub-Chronic Oral Toxicity: Exposure up to 10% in the diets of rats produced no signs of toxicity.</p> <p>Exposure up to 10% in the diet of dogs produced no signs of toxicity.</p>

12. ECOLOGICAL INFORMATION

Persistence and Degradability:	Not readily biodegradable (11% after 28 days)
Ecotoxicity:	<p>Juvenile Turbot: 96-hr. LC50 >1,000 mg/L</p> <p>Corophium Volutator; 10-Day LC50 >1,000 mg/L</p> <p>Marine Algae; 72-hr. EC50 >1,000 mg/L</p> <p>Salmon; PVP at up to 5% in the diet during smolt produced no signs of toxicity.</p> <p>Salmon; PVP at up to 5% in the diet for 112 days did not produce any signs of toxicity.</p>

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

Disclaimer:

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