



MATERIAL SAFETY DATA SHEET

Section1. Identification of the substance and the company- - - - -

Product Name: CROSPVIDONE, Polyvinylpyrrolidone cross-linked, Polyvinylpolypyrrolidone; PVP; PVPP

Company information: Shanghai Yuking Water Soluble Material Tech CO., LTD.

Address: 4F, 13B, No. 600, South Xinyuan Road, 201306, Shanghai, China

Telephone: 0086-21-68286299

Fax: 0086-21-68286226

Section2. Hazards Identification - - - - -

Hazard Overview

Target Organs: None.

Primary Entry Routes: Not applicable.

Acute Health Hazards: None known.

Chronic Health Hazards: None known

Signs and Symptoms of Overexposure

Eye Contact: Not a hazard under normal use conditions.

Skin Contact: Not a hazard under normal use conditions.

Ingestion: Not a hazard under normal use conditions.

Inhalation: Not a hazard under normal use conditions.

Section3. Composition/Information On Ingredients - - - - -

Ingredient	CAS No	Percent	Hazardous
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Crospovidone	25249-54-1/9003-39-8	95 - 100%	No

Section4. First-Aid Measures- - - - -

Eye Contact: Flush with copious amounts of water.

Skin Contact: Wash with soap and water.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Section5. Fire Fighting Measures - - - - -

Flash Point (°F): Not determined

Extinguishing Media: All standard firefighting media

Unusual Fire/Explosion Hazards: Powdered material may form explosive dust-air mixtures.

Special Protective Equipment: Fire fighters should wear full protective clothing, including

self-contained breathing equipment.

Section6. Accidental Release Measures- - - - -

Personal Precautionary Measures: Use appropriate protective equipment.

Procedure for Cleaning/Absorption: Contain spill with sand or other inert materials.

Section7. Handling And Storage- - - - -

Handling: Avoid generating or breathing dust. Minimize dust generation and accumulation.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

Section8. Exposure Controls/Personal Protection- - - - -

Engineering Controls: Use in a well ventilated area.

Respiratory Protection: Use in a well ventilated area.

Hand Protection: Use gloves as a standard industrial handling procedure.

Eye Protection: Safety glasses.

Section9. Physical And Chemical Properties - - - - -

Physical State: Powder

Color: Off White

pH: 5.0-8.0 (1% solution)

Boiling Point (°F): Not determined

Melting Point/Freezing Point(°F): Not determined

Vapor Pressure: Not determined

Solubility: Insoluble in Water

Section10. Stability And Reactivity - - - - -

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Keep away from heat, sparks and flame. Minimize dust generation and accumulation.

Materials to Avoid: Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products: Oxides of nitrogen.

Section11. Toxicological Information - - - - -

Toxicity Test:

Acute Oral LD50 (mg/kg): >5,000 (Rats & Mice)

Sensitization: Human RIPT: Non-sensitizing (PVP)

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

Lymphoma Assay; Bone Marrow Chromosomal Aberration Assay; BALB/C 3T3 Transformation (PVP)

Reproductive/Developmental Toxicity: Various studies of the reproductive toxicity of PVP in rats and rabbits produced no evidence of embryo toxicity or teratogenicity.

Teratogenicity: Non-teratogenic

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.

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

Eye Irritation: Non-irritating to rabbit eye. (PVP)

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. (tested on analogous PVP)

Section12. - - - - - Ecological information - - - - -

Biodegradability: Readily Biodegradability: Not readily biodegradable (11% in 28 Days) (PVP)

Aquatic Toxicity: Juvenile Turbot: 96-hr. LC50 >1,000 mg/L (PVP)

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

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

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.

Section13. - - - - - Disposal considerations - - - - -

Disposal of Waste Method: Follow all applicable community, national or regional regulations regarding waste management methods.

Section14. - - - - - Transport information - - - - -

Land Transportation:

DOT (Non-Bulk):

UN/NA Number: NONE

DOT Shipping Name: NOT REGULATED

Hazard Class: NONE

DOT (Bulk):

UN/NA Number: NONE

DOT Shipping Name: NOT REGULATED

Air Transportation (IATA):

UN Number: NONE

Proper Shipping Name: NOT REGULATED

Hazard Classification: NONE

Sea Transportation (IMO):

UN/ID Number: NONE

Proper Shipping Name: NOT REGULATED

Hazard Classification: NONE

ADR:

UN: NONE

Proper Shipping Name: NOT REGULATED

CLASS: NONE

Section15. - - - - - Regulatory information - - - - -

Classification:

This product is not classified as hazardous under the terms of the EEC directive 67/548/EEC, UN regulations or the European ADR/RID agreements.

TSCA Inventory List: This product and/or its components is listed on TSCA.

California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: None of the components of this product is listed on CALPROP.

Canada DSL Inventory List: This product and/or its components is listed on DSL.

Canada NDSL Inventory List: This product and/or its components is not listed on NDSL.

EU EINECS List: This product and/or its components is not listed on or is exempt from EINECS.

ELINCS: This product and/or its components is not listed on ELINCS.

Germany VCI Assigned Classification into Water Endangering Classes (WGK) List: This product and/or its components is listed on or has been reviewed by WGK.

Japan Inventory of Existing & New Chemical Substances (ENCS): This product and/or its components is listed on ENCS.

Australia Inventory of Chemical Substances (AICS) List: This product and/or its components is listed on AICS.

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section16. - - - - - Other information- - - - -

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Label Hazard Warning:

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions:

No SAF-T-DATA Ratings have been developed for this product. Read and follow all warnings, precautions, instructions and other safety and handling information on the label and MSDS.

Avoid contact with eyes, skin and clothing. Avoid breathing dust.



Keep container closed.

Use with adequate ventilation. Wash thoroughly after handling. Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Revision Information:

New 16 section MSDS format, all sections have been revised.

Disclaimer:

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
