

# Material Safety Data Sheet

## Crospovidone

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

#### Identification of the substance/preparation

**Product Name:** CROSPVIDONE

**CAS Registry Number:** 9003-39-8

**CAS Name:** 2-Pyrrolidinone, 1-ethenyl-, homopolymer

**Formula:** (C<sub>6</sub>H<sub>9</sub>NO)<sub>x</sub>

**Responsible Party:** Chemtrade International

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Qingdao Development Zone, Qingdao, Shandong, China 266555  
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**Synonyms:** Poly(Vinylpolypyrrolidone)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient   | CAS No    | Percent   | Hazardous |
|--------------|-----------|-----------|-----------|
| -----        | -----     | -----     | -----     |
| Crospovidone | 9003-39-8 | 95 - 100% | No        |

### 3. 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.

### 4. 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.

## 5. 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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Use appropriate protective equipment.

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

## 7. 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.

## 8. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Powder

**Color:** Off White

**pH:** 5.0-11.0 (1% solution)

**Boiling Point (°F):** Not determined

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

**Vapor Pressure:** Not determined

**Solubility:** Insoluble in Water

## 10. 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.

## 11. 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)

## 12. 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.

## 13. DISPOSAL CONSIDERATIONS

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

## 14. 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

## 15. 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.

## 16. OTHER INFORMATION

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

**Important Note:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

\*\*\*END OF MSDS\*\*\*