

# Material Safety Data Sheet (MSDS)

**Product Name:** Sodium Crospovidone (water soluble) BP/USP grade

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

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## 1. Identification of the Substance/Preparation and Company

- **Product name:** Sodium Crospovidone (water soluble)
- **Other names / synonyms:** Crosslinked sodium carboxyvinyl polymer (water soluble grade); crospovidone sodium salt (water soluble)
- **Recommended use:** Pharmaceutical excipient — disintegrant, binder, and water-soluble carrier in solid dosage forms. Industrial/research use only.
- **Restrictions on use:** Not for use as active pharmaceutical ingredient without appropriate regulatory approvals.

## 2. Hazard(s) identification

- **GHS classification:** Not classified as hazardous under current GHS criteria.
- **Label elements:** No pictogram required. Signal word: **None**. Hazard statements: **None required**.
- **Other hazards:** Airborne dust may cause mechanical irritation to eyes, nose and throat. Fine dust may present a minor explosion hazard in high concentrations (dust cloud) — follow good housekeeping to avoid dust accumulation.

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### 3. Composition / information on ingredients

- **Substance:** Yes.
- **Chemical name:** Sodium Crospovidone (water soluble)
- **CAS number:** (If you want me to include a CAS number, provide it — otherwise omitted.)
- **Purity:** Typical specification:  $\geq 99\%$  (BP/USP grade) — confirm with product Certificate of Analysis.
- **Impurities / stabilizers:** May contain trace water and residual monomers; see QC certificate.

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### 4. First aid measures

- **Inhalation:** Remove to fresh air. If breathing is difficult or symptoms persist, seek medical attention. For dust exposure, symptomatic treatment.
- **Skin contact:** Wash with soap and water. If irritation occurs and persists, seek medical attention.
- **Eye contact:** Immediately rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. If large amount swallowed or symptoms occur, get medical advice.

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### 5. Firefighting measures

- **Suitable extinguishing media:** Water spray, foam, dry chemical, or CO<sub>2</sub>. Use extinguishing media appropriate for surrounding fire.
- **Unsuitable extinguishing media:** None known specific to this material.
- **Specific hazards:** Product is non-flammable; however decomposition of organics at very high temperatures may produce CO, CO<sub>2</sub> and other irritating fumes. Accumulated dust can be ignited by open flame or hot surfaces.
- **Special protective equipment for firefighters:** Self-contained breathing apparatus and protective clothing. Avoid inhalation of combustion products. Cool exposed containers with water spray.

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### 6. Accidental release measures

- **Personal precautions:** Avoid dust formation. Use personal protective equipment (see Section 8). Keep unprotected personnel away. Eliminate ignition sources (no smoking).
- **Environmental precautions:** Prevent entry into drains, sewers and waterways. If release to environment is likely, notify authorities.
- **Cleanup methods:** Sweep or vacuum collected material (use vacuum with HEPA filter) and place in suitable labelled containers for disposal. Avoid creating dust cloud. For small spills, wipe with damp cloth after removal to pick up residues.

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## 7. Handling and storage

- **Handling:** Avoid creating and breathing dust. Use local exhaust ventilation where dust may be generated. Use good hygiene practices; wash hands after handling. No food or drink in work area.
- **Storage:** Store in a cool, dry, well-ventilated place in tightly closed containers. Protect from moisture and strong oxidizers. Keep away from heat and ignition sources.
- **Incompatible materials:** Strong oxidizing agents.

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## 8. Exposure controls / personal protection

- **Occupational exposure limits:** No specific OEL available for sodium crospovidone; use general dust limits (e.g., OSHA PEL for nuisance dust or local/national limits). If local limits exist, follow them.
- **Engineering controls:** Provide local exhaust ventilation to control dust. Use dust collection systems for processing.
- **Personal protective equipment (PPE):**
  - Respiratory: If dust levels exceed limits, use appropriate NIOSH/EN approved respirator (e.g., P95/FFP2 or higher).
  - Eyes: Safety goggles or face shield to prevent eye contact.
  - Skin: Gloves (nitrile or other chemically resistant) and protective clothing as needed.
  - Hygiene: Wash hands and exposed skin after use.

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## 9. Physical and chemical properties

- **Appearance:** Off-white to white free-flowing powder.

- **Odour:** Odorless or very faint characteristic odour.
  - **pH:** Approx. neutral (depends on formulation).
  - **Melting point / range:** Not applicable (polymeric).
  - **Boiling point:** Not applicable.
  - **Flash point:** Not applicable — non-flammable.
  - **Solubility:** Water-soluble grade — soluble or highly swellable in water.
  - **Bulk density:** Typical powder bulk density per certificate.
  - **Particle size:** Product dependent; refer to specification.
  - **Explosive properties:** Dust may form explosive mixture with air at high concentrations; avoid dust accumulation.
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## 10. Stability and reactivity

- **Reactivity:** Stable under normal conditions of use and storage.
  - **Chemical stability:** Stable under recommended storage conditions.
  - **Possibility of hazardous reactions:** None under normal processing. Avoid contact with strong oxidizers.
  - **Conditions to avoid:** Excessive heat, dust generation, ignition sources.
  - **Incompatible materials:** Strong oxidizing agents.
  - **Hazardous decomposition products:** Thermal decomposition may release carbon oxides and other organic decomposition products.
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## 11. Toxicological information

- **Acute toxicity:** No acute toxicity expected at typical exposure levels. Not classified for acute oral/inhalation/cutaneous toxicity.
- **Irritation / Corrosion:** May cause mechanical irritation to eyes and respiratory tract if dust inhaled.
- **Sensitization:** No data suggesting skin sensitization; not expected.
- **Chronic toxicity / Carcinogenicity / Mutagenicity / Reproductive toxicity:** No data indicating carcinogenicity, mutagenicity or reproductive toxicity for the polymeric material at typical exposures. Use standard caution; see product dossier for detailed toxicological

studies.

- **Toxicological note:** Toxicological data are limited for this specific grade; follow good industrial hygiene practices.

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## 12. Ecological information

- **Ecotoxicity:** Not classified as hazardous to aquatic organisms based on available data. Large releases may cause physical effects in aquatic environments (increased turbidity).
- **Persistence and degradability:** Polymeric; biodegradability may be limited — specific studies should be consulted.
- **Bioaccumulative potential:** Low potential for bioaccumulation due to polymeric nature.
- **Mobility in soil:** Expected low mobility once adsorbed or incorporated into solids; soluble grades may disperse in water.
- **Notes:** Avoid release to surface waters or sewers; follow local environmental regulations.

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## 13. Disposal considerations

- **Waste treatment methods:** Dispose of in accordance with local, regional and national regulations. Preferably incineration or landfill in approved facilities. Do not release large quantities into drains. Empty containers may retain residue — follow container disposal instructions and local laws.
- **Contaminated packaging:** Rinse and dispose per regulations or recycle if permitted.

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## 14. Transport information - Detailed

### 14.1 General / UN number

- **UN number:** Not assigned / None.
- **UN proper shipping name:** Not applicable (not regulated).
- **Transport hazard class(es):** Not classified.
- **Packing group:** Not applicable.

### 14.2 ADR / RID (Road / Rail — Europe)

- **Classification (ADR/RID):** Not classified as dangerous.

- **ADR/RID special provisions:** None specifically applicable. Follow general rules for powder transport (prevent dust release).
- **Tunnel restriction code:** Not applicable.

### 14.3 IMDG (Sea transport)

- **IMDG class:** Not classified as dangerous for sea transport (IMDG).
- **Special provisions:** Not applicable. No marine pollutant designation.
- **EmS (Emergency Schedule):** Not assigned.

### 14.4 ICAO / IATA (Air transport)

- **IATA/ICAO classification:** Not regulated as dangerous goods for air transport in typical packaging and unless present with hazardous substances.
- **Packing instructions / limitations:** Not applicable. For air shipments, carriers may impose requirements for powders (e.g., declaration, packaging) — verify with airline.

### 14.5 DOT / US ground (if shipping from/within United States)

- **DOT classification:** Not regulated as hazardous material under DOT (49 CFR) for normal packaging and use. (Always verify with the latest DOT regulations and state-specific rules.)

### 14.6 Special transport considerations & precautions

- **Dust hazard:** While the product itself is not classified as a flammable solid or explosive, **finely divided dust** can form explosive dust/air mixtures in enclosed spaces. Avoid generating dust clouds during loading/unloading and provide adequate ventilation.
- **Packaging:** Use strong, dry, sealed containers (poly bags inside drums, FIBCs, or sealed sacks). Ensure moisture-resistant packaging to prevent agglomeration.
- **Labeling & documentation:** Even when not regulated, include Product Name, Manufacturer, Emergency contact number, and a declaration that material is non-hazardous for transport if required by carrier. Provide SDS with shipment where requested.
- **Segregation:** Transport away from strong oxidizing agents.
- **Temperature / Environment:** No special temperature controls required, but protect from moisture.

## 14.7 Emergency response guidance

- **Marine / Inland waterway spillage:** Prevent material entering drains and waterways. Use booms/absorbents for floating residues; collect solid material where possible.
- **Evacuation / Isolation:** For large spills, isolate area and avoid inhalation of dust.

## 14.8 Special legal/regulatory notes for carriers

- **Limited quantity / Excepted quantity:** Not applicable for dangerous goods. Carriers may treat as “general cargo.”
- **Bulk transport (IMDG/IBC/TP):** No special codes apply unless mixed with regulated substances. For bulk IBC transport, ensure IBCs are labelled and meet carrier specifications.
- **Classification caveat:** If the product is wet, contaminated, or shipped with other hazardous materials, transport classification may change — re-assess prior to shipment.

**Conclusion (Transport):** Under normal conditions and packaging, **no UN number or dangerous goods classification applies**, but take standard precautions for handling powders and verify carrier and country-specific requirements before consigning. If you want, I can draft a one-page transport declaration / non-dangerous goods statement that you can attach to shipments.

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## 15. Regulatory information

- **Local / national regulations:** The product is intended for pharmaceutical use; comply with applicable pharmaceutical regulations and excipient monographs (USP/BP). Follow local environmental and waste regulations.
- **Classification under specific legislation:** Not classified as hazardous under major hazard classification systems in absence of additional formulation hazards.
- **Chemical inventories:** Check national inventories (e.g., India: AICS/INCI equivalents) for registration status; supplier to confirm compliance.

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## 16. Other information

- **Key references / sources:** Product technical specification and Certificate of Analysis supplied by manufacturer. Regulatory databases and industry guidelines for handling powders and excipients.
- **Disclaimer:** The information in this SDS is believed to be accurate as of the date indicated. It is provided in good faith but without warranty, express or implied. Users must evaluate and determine the suitability of this information for their own particular

purpose. For full regulatory compliance, refer to local regulations and the supplier's product certificate.

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- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.