



## Dry Anionic Polymers Solve 5250 Series

### Material Safety Data Sheet

Date Issued: 04/13/2013

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SOLVE 5250 Series**  
CHEMICAL TYPE: Cationic polymer in solution  
COMPANY: WaterSolve, LLC, 5031 68<sup>TH</sup> Street Caledonia, Michigan 49316, USA  
For Product information call 616-575-8693.  
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

*Identification of the preparation:* Anionic water-soluble polymer

#### 3. HAZARDS IDENTIFICATION

*Aqueous solutions or powders that become wet render extremely slippery surfaces.*

#### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash off immediately with soap and plenty of water. In case of persistent skin irritation, consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion:** The product is not considered toxic based on studies on laboratory animals.

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Water, water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder.

**Special fire-fighting precautions:** Aqueous solutions or powders that become wet produce extremely slippery surfaces.

**Protective equipment for firefighters:**  
No Special protective equipment required.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions:** No special precautions required.
- Environmental precautions:** Do not contaminate water.
- Methods for cleaning up:** Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE**

- Handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hand before breaks and at the end of the workday. When preparing the working solution ensure there is adequate ventilation. When using do not smoke.
- Storage:** Keep in a dry, cool place (0-30 deg. C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls:** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
- Personal protection equipment**
- Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. Dust safety masks are recommended where concentration of total dust is more than 10 mg/m<sup>3</sup>.
- Hand Protection:** Rubber gloves.
- Eye protection:** Safety glasses with side-shields. Do not wear contact lenses.
- Skin protection:** Chemical resistant apron or protective suit if splashing or contact with solution is likely.
- Hygiene measures:** Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- |                             |                |
|-----------------------------|----------------|
| Form:                       | granular solid |
| Color:                      | white          |
| Odor:                       | none           |
| pH:                         | 4-9 @ 5 g/l;   |
| Melting point:              | Not applicable |
| Flash point (deg.C):        | Not applicable |
| Autoignition temp. (deg.C): | Not applicable |
| Vapour pressure (mm Hg)     | Not applicable |

**10. STABILITY AND REACTIVITY**

- Stability:** Product is stable. No hazardous polymerization will occur.
- Hazardous decomposition Products:** Thermal decomposition may produce: nitrogen oxides (NO<sub>x</sub>), carbon oxides. (CO<sub>x</sub>).

**11. TOXICOLOGICAL INFORMATION****Accute toxicity**

- Oral:** LD50/oral/rat > 2,000 mg/kg  
**Dermal:** The results of testing on rabbits showed this material to be non-toxic even at high dose levels.  
**Inhalation:** The product is not expected to be toxic by inhalation.

**Irritation**

- Skin:** The results of testing on rabbits showed this material to be non-irritating to the skin.  
**Eyes:** Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.  
**Sensitization:** The results of testing on guinea pigs showed this material to be non-sensitizing.  
**Chronic toxicity:** Two year feeding studies on rats did not reveal any adverse health effects. A two-year Feeding study on dogs did not reveal adverse health effects.

**12. ECOLOGICAL INFORMATION**

- Fish:** LC50/*Pimephales promelas* (Fathead minnows)/96h > 100mg/L (OECD203)  
**Algae:** IC50/*Selanastrum capricornutum*/ 72h > 100 mg/L (OECD 201)  
**Daphnia:** LC50/*Chaetogammarus marinus*/ 48 h = 100 mg/L (OECD 202)  
**Bioaccumulation:** Does not bioaccumulate.  
**Persistence/degradability:** Not readily biodegradable.

**13. DISPOSAL CONSIDERATIONS**

- Waste from residues/unused products:** In accordance with federal, state and local regulations  
**Contaminated packaging:** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.

**14. TRANSPORT INFORMATION**

Not regulated by DOT.  
Material not restricted for transportation by DOT, IMO, IATA regulations.

**15. REGULATORY INFORMATION**

- RCRA status:** Not a hazardous waste.  
**Hazardous waste number:** Not applicable  
**Reportable quantity (40 CFR 302):** Not applicable

**Threshold planning quantity (40 CFR 335):**

Not applicable

**California Proposition 65 information:**

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains a chemical(s) known to the State of California to cause cancer: residual acrylamide.

All components of this product are on the TSCA and DSL inventories WHMIS (CANADA): Not Regulated

HMIS & NFPA Ratings	HMIS	NFPA
Health:	1	1
Flammability:	1	1
Reactivity	0	0

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