



## Organic Anionic Solve 6399

### Safety Data Sheet

Date Issued: 04/13/2013

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SOLVE 6399**  
CHEMICAL TYPE: Anionic Polyacrylamide  
Molecular Formula: Mixture  
COMPANY: WaterSolve, LLC, 5031 68th 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

No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.

#### 3. HAZARDS IDENTIFICATION

##### Emergency Overview

**Appearance and odor:** White powder, odorless

##### Statement of Hazard:

**CAUTION! MAY CAUSE SKIN AND EYE IRRITATION. MAY FORM EXPLOSIVE DUST-AIR MIXTURES.**

**IMPORTANT! SPILLS OF THIS PRODUCT WHEN MIXED WITH LIQUID ARE VERY SLIPPERY.**

##### Potential Health effects

Effects of exposure:

The estimated acute oral (rat) LD50, acute dermal (rabbit) LD 50 values for this material are >32,000 mg/kg and > 16000 mg/kg, respectively. Direct contact with this material may cause mild eye and skin irritation. The acute 4-hour exposure (rat) for a similar material caused 0/6 deaths at a maximum attainable concentration of 1.11 mg/L.

#### 4. FIRST AID MEASURES

**Ingestion:** Material is not expected to be harmful by ingestion. No specific first aid measures are required.

**Skin Contact:** Wash immediately with plenty of water and soap.

**Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.

**Inhalation:** Material is not expected to be harmful if inhaled. Remove to fresh air.

5. **FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemical.

**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus.

**Special Hazards:**

Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition. Keep containers cool by spraying with water if exposed to fire.

**Mechanical/Static Sensitivity Statements:**

Maintain good housekeeping to control dust accumulations.

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

**Methods For Cleaning Up:**

Products may cause a slip hazard. Spilled material should be absorbed onto an inert material and scooped up. Prevent liquid from entering sewers. Flush spill area thoroughly with water and scrub to remove residue. If slipperiness remains apply more dry-sweeping compound.

7. **HANDLING AND STORAGE**

**HANDLING**

Precautionary Measures: Avoid contact with eyes, skin and clothing. Contains finely divided material. Dust suspended in air may ignite with static discharge, sparks or flame. Equipment, including venting systems, should be grounded. Provide adequate ventilation in areas of use to remove dust. Wash thoroughly after handling.

**Special Handling Statements:** If handled with flammable or combustible materials the explosion hazards may increase. DUST EXPLOSION HAZARD CLASS- 1 Handling of material should be in accordance with standards for venting of deflagrations (e. g. NFPA-68). Maintain good housekeeping to control dust accumulations.

**STORAGE:** To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

**Storage Temperature:** Room temperature

**Reason:** Integrity.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Measures:**

Engineering controls are not usually necessary if good hygiene practices are followed.

**Respiratory Protection:**

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

**Eye Protection:**

Wear eye/face protection such as chemical splash proof goggles or face shield.

**Skin Protection:**

Avoid skin contact. Wear impermeable gloves and suitable protective clothing..

**Additional Advice:**

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor:	White powder, , odorless
Boiling Point:	Not applicable
Melting Point:	Not available
Vapor Pressure:	Similar to water
Specific Gravity/Density:	30-40 Bulk density
Vapor Density:	Not applicable
% Volatile (By Wt):	~5
pH:	~ 5 (10 % solution)
Saturation in Air (% by Vol):	Not applicable
Evaporation Rate:	Not applicable
Solubility in Water:	Limited by viscosity
Volatile Organic Content:	Not available
<b>Flammable Properties</b>	
Flash point:	Not applicable
(Flammable Limits (% by vol):	Not available
Autoignition temp:	Not applicable
Decomposition temp:	Not applicable
Partition Coefficient:	Not available
Odor threshold:	Not available

10. **STABILITY AND REACTIVITY**

Stability:	Stable
Conditions to avoid:	Avoid exposure to moisture.
Polymerization:	Will not occur
Conditions to Avoid:	None known
Incompatible Materials:	Strong oxidizing agents.

Hazardous Decomposition  
Products:

Carbon monoxide  
Carbon dioxide  
Ammonia  
Oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3.

Toxicological information on the OSHA regulated components of this product is as follows:

This product contains no WHMIS regulated (hazardous) components.

California Proposition 65 Warning (applicable in California only)-This product contains (a) chemical(s) known to the State of California to cause cancer.

## 12. ECOLOGICAL INFORMATION

All ecological information provided was conducted on a structurally similar product.

This material is not classified as dangerous for the environment. Acute toxicity tests conducted using environmentally representative water gave the following results:

### **Algae Test Results**

Test: Growth Inhibition (OECD 201)

Duration: 72 h

Species: Green Algae (*Selenastrum capricornutum*)

IC50: >100 mg/L

### **Fish Test Results**

Test: Acute toxicity, freshwater (OECD 203)

Duration: 96 h

Species: Zebra fish (*Brachydanio rerio*)

LC50: >100 mg/L

### **Invertebrate Test Results**

Test: Acute Immobilization (OECD 202)

Duration: 48 h

Species: Water flea (*Daphnia magna*)

EC50: >100 mg/L

### Degradation:

Test: CO2 Evolution: Modified Sturm (OECD 301B)

Duration: 28 day

<70%

This material is not readily biodegradable (OECD 301B). The large polymer size is incompatible with transport across biological membranes and diffusion, therefore the bioconcentration factor is therefore considered to be zero.

Test: Chemical Oxygen Demand

Procedure: Other 25000 ppm

## 13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this SDS is not intended to indicate if the product is a "listed hazardous waste." RCRA

Hazardous Waste Characteristic. There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, See Section 9 of this MSDS (flash point). For Corrosivity, see sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subjected to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of this material if it is to be disposed. The company encourages the recycle, recovery and reuse of materials classified as RCRA hazardous wastes to be disposed of by thermal treatment or incineration at EPA approved facilities. The company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

#### 14. **TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

##### USDOT

Proper Shipping Name: Not applicable/Not regulated  
Hazardous Substances: Not applicable

##### TRANSPORT CANADA

Proper Shipping Name: Not applicable/Not regulated

##### ICAO/IATA

Proper Shipping name: Not applicable/Not regulated  
Packing instructions/maximum net quantity per package:  
Passenger Aircraft:  
Cargo Aircraft:

##### IMO

Proper shipping name: Not applicable/Not regulated

#### 15. **REGULATORY INFORMATION**

##### INVENTORY INFORMATION

USA : All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical I inventory.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL

European Union (EU): All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances(AICA).

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese Inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese Inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

#### OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product. This product does not contain any components regulated under sections of the EPA.

Product Classification under section 311 of SARA
Not applicable

#### 16. **OTHER INFORMATION**

##### NFPA HAZARD RATING (National Fire Protection Association)

Health 1- Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

Fire 2 – Materials that must be preheated before ignition can occur.

Reactivity 0 –Materials that in themselves are normally stable, even under fire exposure conditions.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. The user is responsible to determine the completeness of the information and suitability for the user's own particular use. The knowledge and belief of the company, the information is accurate and reliable as of the date indicated but the company makes no express or implied warranty of merchantability for the material or the information. The company makes no express or implied warranty of fitness for a purpose for the material or for the information. Users of any chemical should educate themselves on all aspects of its use by independent investigation of current scientific and medical knowledge that the material can be used safely.