



Solve 6404

Safety Data Sheet

Date Issued: 06/10/2016

Date Revised: 04/20/2015

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SOLVE 6404**

Use of the Substance/Mixture: Flocculating agent

COMPANY: WaterSolve, LLC, 5031 68th Street S.E. Caledonia, MI 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. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard's (29CFR 1910.1200) implementation of the Globally Harmonized System (GHS), i.e., material is not a dangerous substance or mixture requiring GHS classification according to the US GHS regulations.

GHS-Labeling

Product is not hazardous under US GHS.

Other hazards which do not result in classification

Advice: Forms slippery/greasy layers with water.

Potential environmental effects: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/ Mixture:

Chemical nature: Anionic acrylamide copolymer

Contains no hazardous ingredients according to GHS

Further information

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

4. FIRST AID MEASURES

Ingestion:

Rinse mouth with water. Call a physician if symptoms occur. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Skin contact:

Wash off with soap and water.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids. If possible use lukewarm water.

Inhalation:

No hazards which require special first aid measures. Remove to fresh air.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

5. **FIRE FIGHTING MEASURES**

Suitable Extinguishing Media:

Use water spray, carbon dioxide (CO₂), or dry chemical.

Special Hazards arising from the substance or mixture:

Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

Special Protective Actions for Fire-Fighters:

In the event of fire, wear self-contained breathing apparatus. Use NIOSH/MSHA approved respiratory protection.

Further information

In the event of fire, cool tanks with water spray.

6. **ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

For personal protection, refer to Section 8.

Environmental precautions:

Prevent product from entering the environment.

Methods and materials for containment and cleaning up:

Slippery when wet. Sweep up into containers for disposal. Flush spill area with water. Prevent liquid entering sewers. If slipperiness remains apply more dry-sweeping compound

7. **HANDLING AND STORAGE**

Precautions for safe handling:

Avoid dust accumulation. Handle in accordance with good industrial hygiene and safety practice. The product is hygroscopic. Protect from moisture.

Conditions for safe storage, including incompatibilities

Store in original container.

Materials for packaging

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

Materials to avoid:
Strong oxidizing agents

Storage stability:
Storage Temperature: 39.2 – 89.6 °F
Stable under recommended storage conditions.
Reason: Integrity

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection

Glove material: Impervious gloves. Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection:

Protective clothing.

Eye protection:

Safety goggles.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Physical state:	solid, granular
Color:	off-white
Odour:	none
pH:	5 – 9 (0.5%) Aqueous solution
Initial Boiling Point/range:	Not applicable
Melting Point/Range:	Not determined
Evaporation rate:	Not applicable
Explosive properties	

Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Bulk density:	650-850 kg/m ³
Solubility in Water:	Limited by viscosity
Partition coefficient (n-octanol/water):	Not available
Decomposition temperature:	> 302 °F
Oxidising potential:	The substance or mixture is not classified as oxidizing.
Surface tension:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability:

Possibility of hazardous reactions: Hazardous polymerization does not occur

Conditions to Avoid: Stable under normal conditions.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Oxides of nitrogen
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Ammonia

Thermal decomposition > 302 °F

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity Conclusion: The acute toxicological results displayed may not be the results of actual testing of this material but based on a similar tested material.

LD50/Rat/>/5,000 mg/kg
Remarks: estimated

Acute inhalation toxicity LC50/Rat/4hr/> 20 mg/l
Remarks: estimated

Acute dermal toxicity LD50/Rabbit/>/2,000 mg/kg
Remarks: estimated

Skin corrosion/irritation Conclusion: No skin irritation

**Serious eye damage/
eye irritation** Conclusion: No eye irritation

**Respiratory or skin
Sensitization** Conclusion: Not sensitizing

Germ cell mutagenicity

Genotoxicity in vivo:

Conclusion: Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Conclusion: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION LC50

Ecotoxicity effects

Aquatic toxicity

LC50/96 h/Branchydanio rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l

Remarks: fresh water

This material is not classified as dangerous for the environment. Ecotoxicological information provided is based on a structurally or compositionally similar product. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l

IC50/72hr/Green algae (Selastrum capricornutum)/Growth inhibition/OECD Test Guideline 201: >100 mg/l

Toxicity to other organisms

No data available

Persistence and degradability

Biological Degradability:

Modified Strum Test/CO₂ Evolution Test/28d: <70%

The polymeric ingredient is not readily biodegradable, but degradable by hydrolysis.

Bioaccumulative potential

Bioaccumulation is unlikely. Because of the high molecular weight of the polymer diffusion through biological membranes is very small.

Partition coefficient: n-octanol/water: Not applicable

Mobility in soil

Water solubility: Limited by viscosity.

Surface tension: Not applicable

Other adverse effects

No data available.

Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

13. **DISPOSAL CONSIDERATIONS**

Product: EPA Hazardous Waste – NO
Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Must be disposed of in accordance with local and national regulations.

14. **TRANSPORT INFORMATION**

Land transport: Not classified as dangerous in the meaning of transport regulations.

Sea transport: Not classified as dangerous in the meaning of transport regulations.

Air transport: Not classified as dangerous in the meaning of transport regulations.

Special precautions for user:
None known.

15. **REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: No;
Delayed (Chronic) Health Effects: No;
Fire Hazard: No;
Sudden Release Of Pressure Hazard: No;
Reactivity Hazard: No;

SARA 302 Extremely Hazardous Substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

None Present ()

SARA 313 - Specific Toxic Chemical Listings

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

None Present ()

California Proposition 65

Acrylamide (79-06-1) <= 0.05 %

Remarks: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproduction harm.

Notification Status

All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.

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

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

All components of this product are included in the Australian Inventory of Chemical Substances (AICS) and are not required to be listed on the Australian Inventory of Chemical Substances (AICS).

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

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

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

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

All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory (NZIoC).

16. **OTHER INFORMATION**

NFPA Rating:

Health	0
Fire	1
Reactivity	0

HMIS Rating:

Health	0
Flammability	1
Reactivity	0

Training advice: Read the safety data sheet before using the product.

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.