



## Solve 5230

### Safety Data Sheet

Date Issued: 06/01/2015

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#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE COMPANY/UNDERTAKING

PRODUCT NAME: **SOLVE 5230**  
TYPE OF PRODUCT: Mixture  
Relevant identified uses: Processing aid for industrial applications  
Use advised against: None  
COMPANY: WaterSolve, LLC, 5031 68<sup>TH</sup> Street Caledonia, Michigan 49316, USA  
For Product information call 616-575-8693. [www.gowatersolve.com](http://www.gowatersolve.com)  
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)

According to Federal Regulation 29 CFR 1910.1200

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification of the substance or mixture

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Not classified

##### 2.2 Label elements

Label according to paragraph (f) of Regulation 29 CFR 1910.1200:

Hazards symbol(s): None

Signal Word: None

Hazard statement(s): None

Precautionary Statements: None

2.3 **Other hazards:** Spills product extremely slippery surfaces. Aqueous solutions or powders that become wet render surfaces extremely slippery.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances:** Not applicable, this product is not a substance.

3.2 **Mixtures:** Hazardous components: Contains no reportable hazardous substances.

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

**Inhalation:** Move to fresh air. No hazards which require special first aid measures.

**Skin Contact:** Wash off immediately with soap and plenty of water. Get medical attention if skin irritation develops or persists consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids for at least 15 minutes. In case of persistent eye irritation, consult a physician.

**Ingestion:** Rinse mouth with water. DO NOT induce vomiting. No hazards which require special first aid measures.

4.2 Most important symptoms and effects, both acute and delayed.

None.

4.3 Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information

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

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical.

**Unsuitable extinguishing media:** None

### 5.2 Special hazards arising from the substance or mixture

#### **Hazardous decomposition products:**

Thermal decomposition may produce: chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>).

Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

### 5.3 Advice for fire-fighters

#### **Protective measures:**

In the event of fire, wear self contained breathing apparatus.

**Other information:** Aqueous solutions or powders that become wet produce extremely slippery surfaces.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 personal precautions, protective equipment and emergency procedures

#### **Personal precautions:**

Aqueous solutions or powders that become wet produce extremely slippery surfaces.

#### **Protective equipment:**

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection.

**Emergency procedures:** Keep people away from spill/leak.

### 6.2 Environmental precautions

As with all chemical products, do not flush into surface water.

### 6.3 Methods and material for containment and cleaning up

**Small spills:** Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

**Large spills:** Do not flush with water. Prevent unauthorized access. Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

**Residues:** Sweep up to prevent slip hazard. After cleaning, flush away traces with large quantities of water.

### 6.4 Reference to other sections

7: Handling and storage; Section 8: Exposure controls/personal protection; Section 9: Physical and chemical properties; Section 13: Disposal considerations

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Aqueous solutions or powders that become wet produce extremely slippery surfaces.

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.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep container closed when not in use. Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

Processing aid for industrial applications.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Occupational exposure limits: None.

### 8.2 Exposure controls

Appropriate engineering controls: Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

### Individual protection measures, such as personal protective equipment:

- a) Eye/face protection: Safety glasses with side-shields. Do not wear contact lenses where this product is used.
- b) Skin Protection: Work clothes protecting arms, legs and body.
- i) Hand protection: PVC or other plastic material gloves.
- c) Respiratory protection: Dust safety masks recommended where working powder concentration is more than 10 mg/m<sup>3</sup>.
- d) Additional advice: Wash hands before and at the end of the day. Handle in accordance with good industrial hygiene and safety.

Environmental exposure controls: Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance: Granular solid, White
  - b) Odor: None
  - c) Odor threshold: Not applicable
  - d) pH: 5-9 @ 5 g/l
  - e) Melting point/freezing point: > 150°C
  - f) Initial boiling point/range: Not applicable
  - g) Flash point (°C): Not applicable
  - h) Evaporation rate: Not applicable
  - i) Flammability (solid, gas): No data available
  - j) Upper/lower flammability/explosive limits: Not expected to create explosive atmospheres
  - k) Vapor pressure (mmHg): Not applicable
  - l) Vapor density: Not applicable
  - m) Relative density: 0.6 – 0.9
  - n) Solubility(ies): Soluble in water
  - o) Partition coefficient: -2
  - p) Autoignition temp. (°C): Does not self/ignite (based on the chemical structure).
  - q) Decomposition temperature: > 150°C
  - r) Viscosity: Not available
  - s) Explosive properties: Kst=0  
Non-flammable to ignition sources of less than 2.5 kJ
  - t) Oxidizing properties: Not expected to be oxidizing based on the chemical structure.
- 9.2 other information: None

## 10. STABILITY AND REACTIVITY

10.1 Reactivity: None known.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous reactions: Oxidizing agents may cause exothermic reactions.

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: Incompatible with oxidizing agents.

10.6 Hazardous decomposition products: Thermal decomposition may produce: nitrogen oxides, carbon oxides, hydrogen cyanide (hydrocyanic acid).

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Information on the product as supplied:

<b>Acute Oral toxicity:</b>	LD50/oral/rat > 5,000 mg/kg
<b>Acute Dermal toxicity:</b>	LD50/dermal/rat > 5,000 mg/kg
<b>Acute Inhalation toxicity:</b>	The product is not expected to be toxic by inhalation.
<b>Skin corrosion/irritation:</b>	Not irritating
<b>Serious Eye damage/ irritation:</b>	Not irritating
<b>Respiratory/skin Sensitization:</b>	Not- sensitizing.
<b>Mutagenicity:</b>	Not mutagenic.
<b>Carcinogenicity:</b>	Not carcinogenic.
<b>Reproductive Effects:</b>	Not toxic for reproduction.
<b>STOT single exposure:</b>	No known effects.
<b>STOT- repeated exposure:</b>	No known effects.
<b>Aspiration hazard:</b>	No hazards resulting from the material as supplied.

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Information on the product as supplied:

##### Aquatic Toxicity

<b>Toxicity to Fish:</b>	LC50/Danio rerio/96 hr >100 mg/L (OECD 203)
<b>Toxicity to invertebrates:</b>	EC0/Daphnia magna/48 hr > 100 mg/L (OECD 202)
<b>Toxicity to Algae:</b>	IC50/Scenedesmus subspicatus / 72 hr. > 100mg/L (OECD 201)
<b>Chronic toxicity to fish:</b>	No data available
<b>Chronic toxicity to invertebrates:</b>	No data available
<b>Toxicity to microorganisms:</b>	No data available
<b>Effects on terrestrial organisms:</b>	No known effects.
<b>Sediment toxicity:</b>	No data available.

### 12.2 Persistence and degradability

#### Information on the product as supplied:

<b>Degradation:</b>	Not readily biodegradable.
<b>Hydrolysis:</b>	Does not hydrolyse.
<b>Photolysis:</b>	No data available

### 12.3 Bioaccumulative potential

#### Information on the product as supplied:

Not bioaccumulating.

<b>Partition co-efficient LogPow:</b>	-2
<b>Bioconcentration factor (BCF):</b>	~0

### 12.4 Mobility in soil

**Information on the product as supplied:** None.

**12.5 Other adverse effects:** None known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Waste from residues /unused products:

Dispose of in accordance with federal, state and local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

#### Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose of in accordance with federal, state and local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**Recycling:** The product and its packaging are not suitable for recycling.

**14. TRANSPORT INFORMATION**

Land Transport (DOT) Not classified.  
Sea Transport (IMDG) Not classified.  
Air Transport (IATA) Not classified.

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for substances or mixture  
Information on the product as supplied:**

**USA (TSCA):** All components of this product are either listed on the inventory or are exempt from listings.

**US SARA Reporting requirements:**

**SARA (SECTION 311/312) hazard class:** Not concerned

**RCRA Status:** Not RCRA hazardous.

**California Proposition 65 Information:** WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

**16. OTHER INFORMATION**

<b>HMIS &amp; NFPA Rating</b>	<b>HMIS</b>	<b>NFPA</b>
Health:	0	0
Flammability:	0	0
Reactivity:	0	0
Personal Protection Special:	B	

This SDS was prepared in accordance with the following:  
Federal Regulation 29 CFR 1910.1200

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**OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 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. Both the supplier and manufacturer make no representations and assume no liability for any direct, incidental or consequential damages resulting from its use. Both the supplier and manufacturer make no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. 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. 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. The buyer assumes all responsibility for using and handling the product in accordance with applicable federal, state and local regulations.

**List of abbreviations and acronyms that could be, but not necessarily are, used in the safety data sheet:**

ACGIH: American Conference of Industrial Hygienists  
BEI: Biological Exposure Index  
CAS Chemical: Abstracts Service (Division of the American Chemical Society)  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
CMR: Carcinogenic, Mutagenic or Toxic for Reproduction  
DOT: Department of Transportation  
FG: Food grade  
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
H-statement: Hazard Statement  
HMIRC: Hazardous Materials Information Review Commission  
HMIS: Hazardous Materials Identification System  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"  
IMDG: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
logPow: octanol-water partition coefficient  
LCxx: Lethal Concentration, for xx percent of test population  
LDxx: Lethal Dose, for xx percent of test population  
ICxx: Inhibitory Concentration for xx of a substance  
ECxx: Effective Concentration of xx  
N.O.S.: Not otherwise specified  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
OECD: Organization for Economic Co-operation and Development  
OEL: Occupational Exposure Limit  
OSHA: Occupational Safety and Health Administration  
P-Statement: Precautionary Statement  
PBT: Persistent, Bioaccumulative and Toxic  
PMRA: Health Canada Pest Management Regulatory Agency  
PPE: Personal Protective Equipment  
RTK: Right to Know  
SDS: Safety Data Sheet  
STEL: Short-term exposure limit  
STOT: Specific Target Organ Toxicity  
TLV: Threshold Limit Value  
TWA: Time-weighted average  
VPVB: Very Persistent and Very Bioaccumulative  
WEL: Workplace Exposure Level  
WHMIS: Workplace Hazardous Materials Information System