



## Solve 9116

### Safety Data Sheet

**Date Issued:** 10/13/2019

**Date Revised:** 04/16/2018

1. **PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Solve 9116

**Details of the supplier of the safety data sheet:** WaterSolve, LLC  
5031 68th Street  
Caledonia, Michigan 49316, USA  
[www.gowatersolve.com](http://www.gowatersolve.com)

**Recommended use of the chemical and restrictions on use**

**For Product Information:** 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**

**GHS Classification in accordance with 29 CFR 1910.1200**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**Other hazards:**

None known.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture:** Mixture

**Hazardous components**

No hazardous ingredients

4. **FIRST AID MEASURES**

**General Advice:** No hazards which require special first aid measures.

**If swallowed:** Rinse mouth with water. Do NOT induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**In case of Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

**In case of Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.

**If Inhaled:** Move to fresh air. First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed:**

- Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways).

**Notes to physician:** No hazards which require special first aid measures.

5. **FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry chemical.

**Unsuitable extinguishing media:** None.

**Specific hazards during firefighting:** Do not allow run-off from firefighting to enter drains or water courses.

**Hazardous combustion products:** Ammonia, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>), hydrogen chloride.

**Specific extinguishing methods:** Product is compatible with standard fire-fighting agents.

**Further information:** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Standard procedure for chemical fires.

**Special Protective Equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Spills of this material are very slippery. Wear respiratory protection. Wear suitable protective clothing and eye/face protection. Keep people away from and upwind of spill/leak. Comply with all applicable federal, state, and local regulations.

**Environmental precautions:**

Prevent product from enter drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not contaminate water.

**Methods and materials for containment and cleaning up:**

Keep in suitable, closed containers, for disposal. Do not flush with water. Soak up with inert absorbent material, (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean up promptly by scoop or vacuum. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste

container. Flush residual spill (area) with large amount of water. (For large spills, dike for later disposal.) Dispose of wastes in accordance with applicable federal, state, and local regulations.

7. **HANDLING AND STORAGE**

**ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:**

Normal measures for preventive fire protection.

**ADVICE ON SAFE HANDLING:**

This material is slippery when wet. Do not breathe vapors/dust. Do not smoke. Container hazardous when empty. Avoid contact with skin and eyes. Eating, drinking or smoking should be prohibited in the application area. For personal protection see Section 8. Dispose of rinse water in accordance with local and national regulations. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly removed soiled clothing and wash before reuse. Shower after work using plenty of soap and water. Keep away from heat. The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.

**CONDITIONS FOR SAFE STORAGE:**

Electrical installations/working materials must comply with the technological safety standards.

**MATERIALS TO AVOID:**

No materials to be especially mentioned.

8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures:** General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

**Respiratory protection:** Respiratory protection is not required under normal conditions of use. No personal respiratory protective equipment normally required.

**Hand protection:**

**Material:** PVC or other plastic material gloves.

**Remarks:** The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection:** Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes. Safety glasses with side-shields.

**Skin and body protection:** Wear resistant gloves (consult your safety equipment supplier). Wear as appropriate: Safety shoes.

**Hygiene measures:** Practice general industrial hygiene. Wash hands before breaks and at the end of the workday. When using do not eat or drink. When using do not smoke. Wash hands and face before breaks and immediately after handling the product.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>	liquid
<b>Color:</b>	light yellow
<b>Odor:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>pH:</b>	3-7
<b>Melting point/freezing point:</b>	<0 °C
<b>Initial Boiling Point boiling range:</b>	> 100°C
<b>Flash point:</b>	Does not flash
<b>Evaporation Rate:</b>	>1 butyl acetate=1
<b>Flammability (solid, gas):</b>	No data available
<b>Explosive properties Upper Limits:</b>	No data available
<b>Lower limits:</b>	No data available
<b>Vapor Pressure:</b>	2.3 kPa (20°C)
<b>Relative vapor density:</b>	No data available
<b>Relative density:</b>	1.0-1.2
<b>Density:</b>	No data available
<b>Solubility in Water:</b>	completely miscible
<b>Solubility in other solvents:</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Decomposition temperature:</b>	<150°C Dangerous when heated to decomp, emits toxic fumes of hydrogen chloride. Dangerous; when heated to decomp, emits highly toxic fumes of nitrogen oxides and hydrogen cyanide. Decomp at elevated temperatures to form carbon monoxide, carbon dioxide, and oxides of nitrogen.
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties:</b>	No data available

10. **STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No decompositions if stored and applied as directed. Stable under recommended storage conditions.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous reactions:</b>	Product will not undergo hazardous polymerization.
<b>Conditions to avoid:</b>	Protect from frost, heat, and sunlight. Excessive heat, protect from frost, heat, flames, sparks and moisture.
<b>Incompatible Materials:</b>	aluminum, copper, iron, strong mineral acids, strong oxidizing agents
<b>Hazardous decomposition products:</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide, nitrogen oxides (NO <sub>x</sub> ), hydrogen chloride, ammonia

11. **TOXICOLOGICAL INFORMATION**

**Acute toxicity**  
Not classified based on available information.

**Product:**

**Acute oral toxicity:** LD 50 (Rat): >5,000 mg/kg  
Remarks: The toxicological data has been taken from products of similar composition.

**Acute dermal toxicity:** Acute toxicity estimate: > 5,000 mg/kg  
Method: calculation method

**Skin corrosion/irritation**  
Not classified based on available information.

**Serious eye damage/eye irritation**  
Not classified based on available information.

**Product:**  
Remarks: Unlikely to cause eye irritation or injury.

**Skin or Respiratory sensitization**  
**Skin sensitization:**  
Not classified based on available information.  
**Respiratory sensitization:**  
Not classified based on available information.

**Germ cell mutagenicity:**  
Not classified based on available information.

**Carcinogenicity:**  
Not classified based on available information.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product presents at levels greater than or equal to 0.1 % is identified as carcinogen or potential carcinogen by OSHA.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity:**  
Not classified based on available information

**Product:**  
Effects on fertility: Remarks: not applicable

**STOT – single exposure:**  
Not classified based on available information.

**Product:**  
Remarks: No significant adverse effects were reported.

**STOT-repeated exposure:**  
Not classified based on available information.

**Product:**  
Remarks: No significant adverse effects were reported.

**Aspiration toxicity:**  
Not classified based on available information.

**Product:**

No data available.

**Further information**

**Product:**

Remarks: No data available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

**Toxicity to fish:**

LC 50: > 100 mg/l

Exposure time: 96hr.

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

**Toxicity of daphnia and other**

**Aquatic invertebrates:**

EC 50: > 100 mg/l

Exposure time: 48hr.

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

**Ecotoxicology Assessment:**

Acute aquatic toxicity:

Not classified based on available information.

Chronic aquatic toxicity:

Not classified based on available information.

**Persistence and degradability**

**Product:**

Biochemical Oxygen Demand (BOD): Biochemical oxygen demand 44,000 mg/l

Chemical Oxygen Demand (COD): 250,000 mg/l Remarks: Chemical Oxygen Demand (COD)

**Bioaccumulative potential:**

No data available

**Mobility in soil:**

No data available

**Other adverse effects:**

No data available

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

**Waste from residues:** Dispose of in accordance with all applicable local, state and federal regulations.

**Contaminated packaging:** Empty remaining contents.

**14. TRANSPORT INFORMATION**

**International Transport Regulations**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
U.S. DOT -ROAD				Not dangerous goods	

<b>U.S. DOT - RAIL</b>	Not dangerous goods
<b>U.S. DOT – INLAND WATERWAYS</b>	Not dangerous goods
<b>TRANSPORT CANADA - ROAD</b>	Not dangerous goods
<b>TRANSPORT CANADA - RAIL</b>	Not dangerous goods
<b>INTERNATIONAL MARITIME DANGEROUS GOODS</b>	Not dangerous goods
<b>INTERNATIONAL AIR TRANSPORT ASSOC. - CARGO</b>	Not dangerous goods
<b>INTERNATIONAL AIR TRANSPORT ASSOC. - PASSENGER</b>	Not dangerous goods
<b>MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES</b>	Not dangerous goods
<b>*ORM = ORM-D, CBL=COMBUSTIBLE LIQUID</b>	
Marine pollutant	No

Dangerous goods description (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for description that are specific to the shipment.

**15. REGULATORY INFORMATION**

**EPCRA – Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with section 302 EHS TPQ.

**SARA 311/312 Hazards:** No SARA Hazards

**SARA 313 Components:** 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.

**California Prop. 65**

Proposition 65 warnings are not required for this product based on the result of a risk assessment.

**The components of this product are reported in the following inventories:**

TSCA: On the inventory, or in compliance with the inventory.  
 PICCS: Not in compliance with the inventory.  
 ENCS: Not in compliance with the inventory.  
 KECI: Not in compliance with the inventory.  
 AICS: Not in compliance with the inventory.  
 IECSC: Not in compliance with the inventory.  
 DSL: On the inventory, or in compliance with the inventory.  
 EINECS: On the inventory, or in compliance with the inventory.  
 TCSI: On the inventory, or in compliance with the inventory.

**TSCA list**

No substances are subject to a Significant New Use Rule.

**16. 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 information 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  
 STEL: Short-term exposure limit  
 SDS Safety Data Sheet



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  
(WAF): water-accommodated fraction