



Solve 9117H

Safety Data Sheet

Date Issued: 02/12/2016

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Solve 9117H
Company Identification: WaterSolve, LLC
5031 68th Street
Caledonia, Michigan 49316, USA www.gowatersolve.com

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)

Recommended use of the chemical and restrictions on use

2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom2012).

GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom2012).

Other hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Nature: Defatter

Hazardous components

No hazardous ingredients

4. FIRST AID MEASURES

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

If swallowed: 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: 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: Remove contact lenses. Protect unharmed eye.

If Inhaled: If breathed in, move person into fresh air. 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 or dry chemical.

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

Hazardous combustion products: Ammonia, Carbon dioxide and carbon monoxide, Nitrogen oxides (NO_x), 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.

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:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers, for disposal.

Other information:

Comply with all applicable federal, state and local regulations.

7. **HANDLING AND STORAGE**

ADVICE ON SAFE HANDLING:

Eating, drinking or smoking should be prohibited in the application area. For personal protection see Section 8.

CONDITIONS FOR SAFE STORAGE:

Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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

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: No personal respiratory protective equipment normally required.

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

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

Hygiene measures: General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Color:	Yellow
Odor:	Characteristic
Odour threshold:	No data available
pH:	ca. 6.0
Melting point/freezing point:	No data available
Boiling Point boiling range:	>212°F/100°C
Flash point:	Not applicable
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Flammability (liquids):	Static Accumulating liquid
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available
Vapor Pressure:	No data available
Relative vapor density:	No data available
Relative density:	No data available
Density:	ca. 1.09 g/cm ³
Solubility in Water:	Soluble
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Thermal decomposition:	No data available
Viscosity, dynamic	ca. 2,250 mPa.s (20°C)
Viscosity, kinematic	No data available
Oxidizing properties:	No data available

10. STABILITY AND REACTIVITY

Reactivity: No decompositions if stored and applied as directed.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous reactions: Product will not undergo hazardous polymerization.

Conditions to avoid:	Excessive heat. Protect from frost. Heat, flames, and sparks. Exposure to moisture.
Incompatible Materials:	aluminum, copper, iron, strong mineral acids, strong oxidizing agents
Hazardous decomposition products:	Carbon dioxide, carbon monoxide, nitrogen oxides (NOx), ammonia, hydrogen chloride

11. **TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure: Inhalation, skin contact, eye contact, ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity: LD 50 (Rat): >5,000 mg/kg

Skin corrosion/irritation:

Not classified based on available information.

Product:

Result: Not irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Mildly irritating to eyes.

Remarks: Unlikely to cause eye irritation or injury.

Respiratory or skin sensitization

Skin sensitization:

Not classified based on available information.

Respiratory sensitization:

Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Result: Does not cause skin sensitization.

Germ cell mutagenicity:

Not classified based on available information.

Carcinogenicity:

Not classified based on available information.

Reproductive toxicity:

Not classified based on available information.

STOT – single exposure:

Not classified based on available information.

STOT – repeated exposure:

Not classified based on available information.

Aspiration toxicity:

Not classified based on available information.

Further Information:

Product:

Remarks: No data available.

Carcinogenicity:

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 present at levels greater than or equal to 0.1 % is identified as a 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.

12. **ECOLOGICAL INFORMATION**

Ecotoxicity

Product:

Toxicity to fish: LC 50 Zebra fish (*Danio rerio*): > 10 mg/l
Exposure time: 96hr.

Toxicity to daphnia and other Aquatic invertebrates: EC 50 Water flea (*Daphnia magna*): > 10 mg/l
Exposure time: 48hr.
Method: OECD Test Guideline 202

Persistence and degradability

Product:

Physico-chemical removability: Remarks: The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

13. **DISPOSAL CONSIDERATIONS**

Disposal methods

General Advice: Dispose of in accordance with all applicable local, state and federal regulations.

The product should not be allowed to enter drains, water courses or the soil..

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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
U.S. DOT - RAIL					Not dangerous goods
U.S. DOT – INLAND WATERWAYS					Not dangerous goods
TRANSPORT CANADA - ROAD					Not dangerous goods

TRANSPORT CANADA - RAIL	Not dangerous goods
TRANSPORT CANADA – INLAND WATERWAYS	Not dangerous goods
INTERNATIONAL MARITIME DANGEROUS GOODS	Not dangerous goods
INTERNATIONAL AIR TRANSPORT ASSOC. - CARGO	Not dangerous goods
INTERNATIONAL AIR TRANSPORT ASSOC. - PASSENGER	Not dangerous goods
MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES	Not dangerous goods

*ORM = ORM-D, CBL=COMBUSTIBLE LIQUID

Marine pollutant	No
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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

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 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

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

TSCA: On TSCA Inventory
 DSL: All components of this product are on the Canadian DSL.
 AUSTR: On the inventory, or in compliance with the inventory.
 ENCS: On the inventory, or in compliance with the inventory.
 KECL: On the inventory, or in compliance with the inventory.
 PHIL: On the inventory, or in compliance with the inventory.
 IECSC: On the inventory, or in compliance with the inventory.

Inventories:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZLoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. OTHER INFORMATION

Full text of H-Statements referred to under Sections 2 and 3.

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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
 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