



## Solve 9345

# Safety Data Sheet

**Date Issued:** 07/17/2018

**Date Revised:** 02/23/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Solve 9345  
**Company Identification:** WaterSolve, LLC  
5031 68th Street  
Caledonia, Michigan 49316, USA  
616-575-8693

**For Product Information:**

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 in accordance with 29 CFR 1910.1200**

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

**GHS LABEL ELEMENTS**

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

**OTHER HAZRDS:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Hazardous Components**

Chemical Name	CAS#	Classification	CONCENTRATION %
ALIPHATIC HYDROCARBON	Trade Secret	Flam. Liq. 4; H227 Asp. Tox. 1; H304	>=20 - < 30
ALKANOL POLYALKOXYLATE	Trade Secret	Acute Tox. 4; H302 Eye Irrit. 2A; H319	>= 1 - < 1.5

### 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:** No symptoms known or expected.

**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>) or dry chemical.

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

### **Hazardous combustion products:**

Carbon dioxide (CO<sub>2</sub>) and carbon monoxide, Hydrocarbons, Nitrogen oxides (NO<sub>x</sub>), toxic fumes

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

**Futher 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. Comply with all applicable federal, state, and local regulations.

### **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:**

Soak up with inert absorbent material, (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## 7. **HANDLING AND STORAGE**

### **Advice on protection against fire and explosion:**

Normal measures for preventive fire protection.

### **Advice on Safe Handling:**

Smoking, eating and drinking 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**

COMPONENTS	CAS-No.	Value type (form of exposure)	Control parameters/permissible concentration	Basis
ALIPHATIC HYDROCARBON	Trade Secret	TWA (mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA (mist)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (mist)	10 mg/m <sup>3</sup>	NIOSH REL

**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**

<b>Appearance:</b>	liquid
<b>Color:</b>	milky, white
<b>Odor:</b>	mild, hydrocarbon-like
<b>Odor threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Boiling Point/boiling range:</b>	No data available
<b>Flash point:</b>	> 93.3°C
<b>Evaporation Rate:</b>	>1
<b>Flammability (solid, gas):</b>	No data available
<b>Self-ignition:</b>	No data available
<b>Explosive properties:</b>	
<b>Lower / upper limits:</b>	No data available

<b>Vapor Pressure:</b>	21.3 hPa (20°C) Method: ASTM D 2879-86
<b>Relative vapor density:</b>	No data available
<b>Relative density:</b>	ca. 1
<b>Density:</b>	ca. 1.05 g/cm <sup>3</sup>
<b>Solubility in Water:</b>	Emulsifiable
<b>Solubility in other solvents:</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Thermal decomposition:</b>	No data available
<b>Viscosity, dynamic</b>	400 cps
<b>Viscosity, kinematic</b>	> 21 mm <sup>2</sup> /s (40°C) Based on a similar product formulation.
<b>Oxidizing properties:</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No decompositions if stored and applied as directed.
<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, flames and sparks.
<b>Incompatible Materials:</b>	Strong acids, strong oxidizing agents, halogens, strong reducing agents.
<b>Hazardous decomposition products:</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide, hydrocarbons, nitrogen oxides (NO <sub>x</sub> )

## 11. TOXICOLOGICAL INFORMATION

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

### Product:

**Acute oral toxicity:** Acute toxicity estimate: >5,000 mg/kg  
Method: Calculation method

**Acute dermal toxicity:** Acute toxicity estimate: >5,000 mg.kg  
Method: Calculation method

### Components:

#### **ALIPHATIC HYDROCARBON:**

**Acute oral toxicity:** LD50 (Rat): > 5,000 mg/kg

**Acute inhalation toxicity:** LC50 (Rat, male and female): > 5.28 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

**Acute dermal toxicity:** LD50 (Rabbit): >2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

#### **ALKANOL POLYALKOXYLATE:**

**Acute oral toxicity:** LD50 (Rat): 1,940 mg/kg

**Acute dermal toxicity:** LD50 (Rat): >2,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

**ALIPHATIC HYDROCARBON:**

Result: Mildly irritating to skin

**ALKANOL POLYALKOXYLATE:**

Result: Not irritating to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

**ALIPHATIC HYDROCARBON**

Result: Mildly irritating to eyes

**ALKANOL POLYALKOXYLATE**

Result: Irritating to eyes

**Respiratory or skin sensitization**

**Skin sensitization:**

Not classified base on available information.

**Respiratory sensitization:**

Not classified base on available information.

**Germ cell mutagenicity**

Not classified base on available information.

**Carcinogenicity**

Not classified base 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 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.

**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.

**Components:**

**ALIPHATIC HYDROCARBON**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Further information**

**Product:**

**Remarks:** No data available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

**Product:**

**Ecotoxicology Assessment**

**Acute aquatic toxicity:**

Acute aquatic toxicity Category 3; Harmful to aquatic life.

**Chronic aquatic toxicity:**

Not classified based on available information.

**Components:**

**ALIPHATIC HYDROCARBON**

**Ecotoxicology Assessment**

**Acute aquatic toxicity:**

No toxicity at the limit of solubility

**Chronic aquatic toxicity:**

No toxicity at the limit of solubility

**ALKANOL POLYALKOXYLATE**

**Toxicity to Fish:**

LC 50 (Danio rerio (zebra fish)): 1-10 mg/l

Exposure time: 96 h

**Toxicity of daphnia and other**

**Aquatic invertebrates:**

EC 50 (Water flea (Daphnia magna)): 5-10 mg/l

Exposure time: 48 h

**Toxicity to microorganisms:**

EC 50: > 1,000 mg/l

**Persistence and degradability**

**Components:**

**ALKANOL POLYALKOXYLATE:**

**Biodegradability:**

Biodegradation: 50 – 70%

Exposure time: 28 d

**Chemical Oxygen Demand (COD):**

2,170 mg/g

Method: Chemical oxygen demand

**Dissolved organic carbon (DOC):**

540 mg/g

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods:**

**Waste from residues:** 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
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 descriptions (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**

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

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

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

**SARA 313** 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 results of a risk assessment.

**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
AICS:	On the inventory, or in compliance with the inventory.
ENCS:	Not in compliance with the inventory.
KECI:	On the inventory, or in compliance with the inventory.
PICCS:	On the inventory, or in compliance with the inventory.
IECSC:	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.

No substances are subject to TSCA 12(b) export notification requirements.

**16. OTHER INFORMATION**

**Full text of H-statements:**

H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.

**Full text of other abbreviations:**

Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids

**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  
LC<sub>xx</sub>: Lethal Concentration, for xx percent of test population  
LD<sub>xx</sub>: Lethal Dose, for xx percent of test population  
IC<sub>xx</sub>: Inhibitory Concentration for xx of a substance  
EC<sub>xx</sub>: 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