Solve 9300LTR

Safety Data Sheet

Date Issued: 09/07/2018
Date Revised: 02/26/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Solve 9300LTR**
Company Identification: WaterSolve, LLC
5031 68th Street
Caledonia, Michigan 49316, USA
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 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 Hazards
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical nature: Static accumulator

Hazardous Components

CHEMICAL NAME	CAS-No.	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	>=1.5 - <5

Trade Secret Composition-conceal identity + concentration

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:

- Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
- This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.
- 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), lung irritation, drowsiness, confusion, irregular heartbeat, convulsions.

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 (CO2) or dry chemical.

Specific hazards during firefighting:
If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier that air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: Ammonia, Carbon dioxide (Co2), carbon monoxide, Hydrocarbons, toxic fumes

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. Comply with all 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^3	OSHA Z-1
		TWA	200 mg/m^3 (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m^3	OSHA P0
		TWA (Mist)	5 mg/m^3	NIOSH REL
		ST (Mist)	10 mg/m³	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

Appearance:	liquid
Color:	White
Odor:	Aliphatic
Odor threshold:	No data available
pH:	+/- 0.77
Melting point/freezing point:	No data available
Boiling Point boiling range:	> 212°F (1013 hPa)
Flash point:	93.4°C Method: Seta closed cup See user defined free texxt
Evaporation Rate:	< 1 butyl acetate=1
Flammability (solid, gas):	No data available
Self-ignition:	> 392 °F
Upper explosion limit:	7% (V) Calculated Explosive Limit
Lower explosion limits:	0.6% (V) Calculated Explosive Limit
Vapor Pressure:	0.01 mmHg (77.00 °F)
Relative vapor density:	No data available
Relative density:	No data available
Density:	Approximate 1.05 g/cm³
Solubility in Water:	Soluble
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Decomposition temperature:	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	> 21 mm2/s (40 °C) Based on a similar product formulation.
Oxidizing properties:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No decomposition 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:	Heat, flames and sparks. Protect from frost
Incompatible Materials:	halogens, strong acids, strong oxidizing agents, strong reducing agents
Hazardous decomposition products:	Ammonia, carbon dioxide (CO2), carbon monoxide, hydrocarbons

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

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

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: 4h
Test atmosphere: vapor
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: Not irritating to skin

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: Result: Not irritating to eyes

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 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 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
Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity
Product:

Toxicity to fish:
LC 50 (Oncorhynchus mykiss (rainbow trout)): 177 mg/l
Exposure time: 96hr.
Test Type: Static test

LC 50 (Pimephales promelas (fathead minnow)): 49.5 mg/l
Exposure time: 96hr
Test Type: Static test

Toxicity of daphnia and other Aquatic invertebrates:
LC 50 (Daphnia (water flea)): 0.607 mg/l
Exposure time: 48hr.
Test Type: Static test

Ecotoxicology Assessment
Acute aquatic toxicity: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity: Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

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: LC50 (Danio rerio (zebra fish)): 1 – 10 mg/l
Exposure time: 96h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Water flea (Daphnia Magna)): 5-10 mg/l
Exposure time: 48h

Toxicity to microorganisms: EC50: > 1,000 mg/l

Persistence and degradability
Product:
Biochemical Oxygen Demand (BOD): Biochemical Oxygen Demand within 5 days
190,000 mg/l

Chemical Oxygen Demand (COD): 1,096,000 mg/l
Method: Chemical Oxygen Demand

Components:
ALKANOL POLYALKOXYLATE
Biodegradability: Biodegradation: 50 – 70%
Exposure time: 28d

Chemical Oxygen Demand (COD): 2,170 mg/kg
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

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

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:

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:	On TSCA Inventory.

TSCAlist
No substances are subject to a Significant New Use Rule.

16. OTHER INFORMATION

Further information
Revision Date: 02/26/2018

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

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
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