



Solve 9209

Safety Data Sheet

Date Issued: 07/05/2018

Date Revised: 12/26/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Solve 9209
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 chemical and restrictions on use

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910.1200

Skin irritation: Category 2
Specific target organ toxicity
-single exposure: Category 3 (Central nervous system)

GHS Label element

Hazard pictograms:



Signal word: Warning
Hazardous statements: H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

Precautionary Statements:
Prevention:
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves.

Response:
P302 + P352 **IF ON SKIN:** Wash with plenty of soap and water.
P304 + P340 + P312 **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313 If skin irritations occurs: Get medical advice/attention.
P352 Take off contaminated clothing and wash before reuse.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards: Static Accumulating liquid.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

Chemical nature: Static Accumulator

Hazardous components

Chemical Name	CAS#	Classification	CONCENTRATION %
ALIPHATIC HYDROCARBON	Trade Secret	Flam. Lig. 4; H227 STOT SE 3; H336	>=20 - <30

Trade Secret Composition-Conceal Identity + Concentration

4. **FIRST AID MEASURES**

General Advice: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If swallowed: Obtain medical attention. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to a drowsy or unconscious person. If symptoms persist, call a physician.

In case of Skin Contact: Remove contaminated clothing. If on skin, rinse well with water. Wash contaminated clothing before re-use.

In case of Eye Contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.

If Inhaled: Obtain medical attention. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. 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, confusion, irregular heartbeat, convulsions. Causes skin irritation. May cause drowsiness and dizziness

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.

Unsuitable extinguishing media: High volume water jet.

Specific hazards during firefighting:

Do not allow run-off from firefighting to enter drains or water courses.

Hazardous combustion products:

Carbon dioxide and carbon monoxide, Nitrogen oxides (NO_x), hydrocarbons

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:

Use personal protective equipment. Ensure adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with 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:

Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Containers are hazardous when empty. Avoid exposure-obtain special instructions before use. 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.

Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

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/m ³	NIOSH REL

Trade Secret Composition – conceal identity + concentration

Engineering measures:

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:

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

In the case of vapour formation, use a respirator with an approved filter.

Hand protection

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.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier). Wear as appropriate: Impervious clothing, Safety shoes. Choose body protection according to the amount and concentration of the dangerous substances at the work place.

Hygiene measures: Wash hands before breaks and at the end of the workday. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:	viscous
Color:	white
Odor:	mild, hydrocarbon-like
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling Point/boiling range:	No data available
Flash point:	> 100°C Method: Cleveland open cup
Evaporation Rate:	<1
Self-ignition:	No data available
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:	1
Density:	Approximate 1.03 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	No data available
Viscosity, kinematic	No data available
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.
Incompatible Materials:	strong oxidizing agents, strong reducing agents

11. **TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure:

Inhalation, skin contact, eye contact, ingestion

Acute toxicity: Not classified based on available information.

Components:

ALIPHATIC HYDROCARBON:

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

Acute inhalation toxicity:

LC50 (Rat, male and female): > 5.28mg/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.

Skin corrosion/irritation:

Causes skin irritation.

Product:

Remarks:

May cause skin irritation and /or dermatitis.

Result:

Repeated exposure may cause skin dryness or cracking.

Components:

ALIPHATIC HYDROCARBON

Result:

Mildly irritating to skin.

Serious eye damage/eye irritation:

Not classified based on available information.

Product:

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

Components:

ALIPHATIC HYDROCARBON:

Result:

Mildly 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

Reproductive toxicity:

Not classified based on available information

STOT – single exposure:

May cause drowsiness or dizziness.

Components:

ALIPHATIC HYDROCARBON:

Assessment:

May cause drowsiness or dizziness.

STOT – repeated exposure:

Not classified based on available information

Aspiration toxicity:

Not classified based on available information

Product:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentration substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): 38.7 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: no

Toxicity to daphnia and other

Aquatic invertebrates:

EC50 (Daphnia magna (water flea)): 0.21 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: no

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

Persistence and Degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other Adverse Effect

Product:

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

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

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. Do not re-use empty containers.

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	Marine Pollutant: (Alcohol Alkoxyates, Alcohols, C12-18, Ethoxylated >1< 2.5 Mole EO)
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		Yes
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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 descriptions 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:

Hazards not otherwise classified (physical hazards)
Skin corrosion or irritation
Specific target organ toxicity (single or repeated exposure)

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:	On the inventory, or 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.

16. OTHER INFORMATION

Full text of H-Statements

H227	Combustible liquid.
H336	May cause drowsiness or dizziness

Full text of other abbreviations

Flam. Liq.	Flammable liquids
STOT SE	Specific target organ toxicity – single exposure

DATE ISSUED: 07/05/2018

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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
LC_{xx}: Lethal Concentration, for xx percent of test population
LD_{xx}: Lethal Dose, for xx percent of test population
IC_{xx}: Inhibitory Concentration for xx of a substance
EC_{xx}: 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