

# **Solve 9244**

# **Safety Data Sheet**

**Date Issued:** 07/23/2018 **Date Revised:** 06/25/2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Solve 9244
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 Use of Substance/Mixture: Flocculating agent

# 2. <u>HAZARDS IDENTIFICATION</u>

GHS CLASSIFICATION in accordance with 29 CFR 1910.1200

Eye irritation: Category 2A

GHS LABEL ELEMENT

Hazard pictograms:



Signal Word: WARNING!

Hazard Statements: H319 Causes serious eye irritation.

**Precautionary Statements:** 

**PREVENTION:** P264 Wash skin thoroughly after handling.

P280 Wear eye protection/face protection.

**RESPONSE:** P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards: None known.

## 3. <u>COMPOSITION/INFORMATION ON INGREDIENTS</u>

Substance/Mixture: Mixture

**Chemical nature:** Static accumulator

#### **Hazardous Components**

Chemical Name	CAS#	Classification	CONCENTRATION %
ALIPHATIC	Trade Secret	Flam. Liq. 4; H227	>=20 - < 30
HYDROCARBON		Asp. Tox. 1; H304	
ALCOHOL	Trade Secret	Acute Tox. 4; H302	>= 1.5 - < 3
ALKOXYLATES		Eye Dam. 1; H318	

#### 4. FIRST AID MEASURES

**General Advice:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

**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:** Immediately flush eyes with plenty of water. Remove contact lenses. Protect unharmed eye.

**If Inhaled:** If breathed in, move person to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, consult a physicia.

## 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 serious eye irritation.

**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 fire fighting to enter drains or water courses.

**Hazardous combustion products:** Carbon dioxide(CO2), carbon monoxide, Hydrocarbons, Nitrogen oxides (NOx)

**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 a 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. <u>HANDLING AND STORAGE</u>

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

**Advice on safe handling:** Do not breathe vapors/dust. Do not smoke. Containers hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking 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. Electrical installations/working materials must comply with the technological safety standards.

## 8 <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

**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/m³	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m³	OSHA P0
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL

#### **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:

#### **Hand protection:**

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

#### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

#### Skin and body protection

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

**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: (ca.) 3.7 (20°C)
Concentration: 10 g/l

Melting point/freezing point:< -15°C</th>Boiling Point/boiling range:103°CFlash point:>100°C

Method: Cleveland open cup

**Evaporation Rate:** <1

Flammability (Solid, gas):

Self-ignition:

Upper explosion limit:

Lower explosion limit:

No data available
No data available
No data available
Vapor Pressure:

23.3 hPa (20°C)

Method: ASTM D 2879-86

**Relative vapor density:**No data available **Relative density:**1.03 - 1.04

**Density:** Approximate 1.03 g/cm<sup>3</sup>

Solubility in Water: Soluble

**Solubility in other solvents:** No data available

Partition coefficient

(n-octanol/water):No data availableThermal decomposition:No data availableViscosity, dynamic> 7 mPa.s (40°C)Viscosity, kinematic> 20.5 mm2/s (40°C)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:** Heat, flames and sparks.

**Incompatible Materials:** Strong oxidizing agents, strong reducing agents.

Hazardous decomposition

**products:** Carbon dioxide (CO2), carbon monoxide, hydrocarbons, nitrogen

oxides (NOx)

#### 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

**Components:** 

ALIPHATIC HYDROCARBON:

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

**Acute inhalation toxicity:** LD 50 (Rat, male and female): > 5.28 mg/l

Exposure time: 4 hr. Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

**Acute dermal toxicity:** LD 50 (Rabbit): > 2,000 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

ALCOHOL ALKOXYLATES:

**Acute oral toxicity:** LD 50 (Rat): 1,380 mg/kg

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

**Product:** Result: Possibly irritating to skin.

Result: Repeated exposure may cause skin dryness or

cracking.

Remarks: May cause skin irritation in susceptible persons.

**Components:** 

ALIPHATIC HYDROCARBON: Result: Mildly irritating to skin.

**ALCOHOL ALKOXYLATES:** Result: Not irritating to skin.

**Serious eye damage/eye irritation:** Causes serious eye irritation.

**Product:** 

Remarks: Vapors may cause irritation to the eyes, respiratory

system and the skin.

Causes serious eye irritation.

**Components:** 

**ALIPHATIC HYDROCARBON:** Result: Mildly irritating to eyes.

**ALCOHOL ALKOXYLATES:** Result: Risk of serious damage 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: May cause drowsiness or dizziness.

**Components:** 

**ALIPHATIC HYDROCARBON:** Assessment: May cause drowsiness or dizziness.

STOT – repeated 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 hyman 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:** 

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 11 mg/l

Exposure time: 96 hr.

LC50 (Pimephales promelas (fathead minnow)): 35.0 mg/l

Exposure time: 96 hr.

Remarks: Test conducted using environmentally representative

water.

Toxicity to daphnia and other

Aquatic invertebrates: LC 50 (Water flea (Ceriodaphnia dubia)): 1.75 mg/l

Exposure time: 48hr.

EC50 Water flea (Ceriodaphnia dubia): 1.08 mg/l

Exposure time: 48h

Remarks: Test conducted using environmentally representative

water.

**Ecotoxicology Assessment:** 

Acute aquatic toxicity: Acute aquatic toxicity Category 2; Toxic 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.

ALCOHOL ALKOXYLATES:

Toxicity to fish: LC50 (Fish): > 1 - 10 mg/l

Exposure time: 96h Test Type: static test

Toxicity to daphnia and other

Aquatic invertebrates: EC50 (Daphnia (water flea)): > 1 - 10 mg/l

Exposure time: 48h Test Type: static test

Toxicity to daphnia and other

Aquatic invertebrates EC50 (Daphnia (water flea)): 0.17 mg/l

(chronic toxicity: Exposure time: 21d

**Ecotoxicology Assessment:** 

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

Persistence and degradability

**Product:** 

Biochemical Oxygen Demand (BOD): Biochemical oxygen demand

383,000 mg/l

Chemical Oxygen Demand (COD): 1,930,000 mg/l

Method: Chemical Oxygen demand

**Components:** 

ALCOHOL ALKOXYLATES:

Biodegradability: Result: Readily biodegradable.

**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. <u>DISPOSAL CONSIDERATIONS</u>

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

**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**

## REGULATION

ID NUMBER	PROPER SHIPPING NAME	*Hazard	Subsidiary	PACKING	MARINE
		Class	hazards	GROUP	POLLUTANT
					/ LTD. QTY.

# MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 3082 Not dangerous goods 9 Ill

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION – PASSENGER

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

# TRANSPORT CANADA – RAIL

Not dangerous goods

#### TRANSPORT CANADA-ROAD

Not dangerous goods

## U. S. DOT – INLAND WATERWAYS

Not dangerous goods

## U. S. DOT – RAIL

Not dangerous goods

## U. S. DOT – ROAD

ENVIRONMENTALLY

HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

# \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous good descriptions (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 TPO.

**SARA 311/312 Hazards:** Serious eye damage or eye irritation.

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.

<u>California Prop. 65-</u>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: This product contains one or more components that are not on the Canadian

DSL and have annual quantity limits.

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: Not 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

#### **Further information**

#### 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.

H318 Causes serious eye damage.

#### Full text of other abbreviations

Acute Tox.: Acute toxicity
Asp. Tox.: Aspiration hazard
Eye Dam.: Serious eye damage
Flam. Liq.: Flammable liquids

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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

#### 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