



Solve 9292

Safety Data Sheet

Date Issued: 10/21/2020

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Solve 9292
Company Identification: WaterSolve, LLC
5031 68th Street
Caledonia, Michigan 49316, USA www.gowatersolve.com
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

Use of Substance/Mixture: Industrial chemical

2. HAZARDS IDENTIFICATION

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. **COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

Components

Chemical Name	CAS#	Classification	CONCENTRATION %
Hydrotreated petroleum distillates	64742-47-8	Flam. Liq. 4; H227 Asp. Tox. 1 ; H304	>=20 - < 30
Ethoxylated alcohols (C12-16)	68551-12-2	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

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 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), lung irritation, confusion, irregular heartbeat, convulsions.
- 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.
- 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: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than 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: Carbon dioxide (CO₂), carbon monoxide, Hydrocarbons, Nitrogen oxides (NO_x)

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. **HANDLING AND STORAGE**

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION: Normal measures for preventive fire protection.

ADVICE ON SAFE HANDLING: Do not breathe vapours/dust. Do not smoke. Container 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.

FURTHER INFORMATION ON STORAGE STABILITY: No decomposition if stored and applied as directed.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

COMPONENTS	CAS-No.	Value type (form of exposure)	Control parameters/permissible concentration	Basis
Hydrotreated petroleum distillates	64742-47-8	TWA (mist)	5 mg/m ³	OSHA Z-a
		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

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 where there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

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

Appearance:	viscous
Color:	White
Odor:	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:	> 214 °F / > 101 °C
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Self-ignition:	No data available
Explosive properties:	
Upper Explosion limit:	7% (V) GLP: Calculated Explosive Limit
Lower Explosion limit:	0.6% (V) GLP: Calculated Explosive Limit
Lower / upper limits:	No data available
Vapor Pressure:	19.3 hPa (20°C) Method: ASTM D 2879-86
Relative vapor density:	No data available
Relative density:	No data available
Density:	ca. 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	> 20.5 mm ² /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.
Incompatible Materials: Strong oxidizing agents, strong reducing agents

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Hydrotreated petroleum distillates:

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: vapor
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.

Ethoxylated alcohols (C12-16):

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

Skin corrosion/irritation:

Not classified based on available information.

Product:

Remarks: May cause skin irritation or dermatitis.

Components:

Hydrotreated petroleum distillates:

Result: Mildly irritating to skin.

Ethoxylated alcohols (C12-16):

Result: Not irritating to skin.

Serious eye damage/eye irritation:

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.

Components:

Hydrotreated petroleum distillates:

Result: Mildly irritating to eyes.

Ethoxylated alcohols (C12-16):

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 on OSHA's list of regulated carcinogens.

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:

Hydrotreated petroleum distillates:

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:

Toxicity to fish:

LC 50 (Cyprinodon variegatus (sheepshead minnow)): >100 mg/l
Exposure time: 96 hr.
Method: EPA-821-R-02-012
GLP: no

LC 50 (Pimephales promelas (fathead minnow)): 26.5 mg/l
Exposure time: 96 hr.
Method: OECD Test Guideline 203
Remarks: Test conducted using environmentally representative water.

**Toxicity to daphnia and other
Aquatic invertebrates:**

EC 50 (Water flea (Ceriodaphnia dubia)): 5.66 mg/l
Exposure time: 48 hr.
Method: OECD Test Guideline 202
Remarks: Test conducted using environmentally representative water.

EC 50 (Mysidopsis bahia (opossum shrimp)): 1.15 mg/l
Exposure time: 48 hr.
Method: EPA-821-R-02-012
GLP: no

**Ecotoxicology Assessment
Acute aquatic toxicity:**

Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity:

Not classified based on available information.

Components:

Hydrotreated petroleum distillates:

Ecotoxicology Assessment

Acute Aquatic Toxicity:

No toxicity at the limit of solubility

Chronic Aquatic Toxicity:

No toxicity at the limit of solubility

Ethoxylated alcohols (C12-16):

Toxicity to fish:

LC50 (Fish): > 1 – 10 mg/l
Exposure time: 96 h
Test Type: static test

**Toxicity to daphnia and other
aquatic invertebrates:**

EC50 (Daphnia (water flea)): > 1 – 10 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants:

ErC50 (Green algae): > 0.1 – 1.0 mg/l
Exposure time: 96 h
Test Type: static test

**Toxicity to daphnia and other
aquatic Invertebrates**

(Chronic toxicity):

EC50 (Daphnia (water flea)): 0.17mg/l
Exposure time: 21 d

Ecotoxicology Assessment:

Chronic aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Persistence and Degradability

Product:

Biodegradability:

Result: Readily biodegradable.
Remarks: At natural pHs (>6), the polymer degrades due to the hydrolysis to more than 70% in 28 days.

Components:

Ethoxylated alcohols (C12-16):

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.
Toxic to aquatic life.

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.

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 Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49CFR

Not regulated as a dangerous good.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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: 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.

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:

TCSI:	Not in compliance with the inventory.
TSCA:	All substances listed as active on the TSCA Inventory
DSL:	This product containers one or several components that are not on the Canadian DSL nor NDSL.
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.

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.
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
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	USA. NIOSH Recommended Exposure Limits
OSHA P0	USA. OSHA – TABLE Z-1 Limits for Air Contaminants-1910.1000
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
ACGIH/TWA	8-hour, time-weighted average
NIOSH REL/TWA	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek.
NIOSH REL/ST	STEL – 15 minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0/TWA	8-hour time weighted average
OSHA Z-1/TWA	8-hour time weighted average

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