



## Solve 9290X

### Safety Data Sheet

**Date Issued:** 12/05/2018

**Date Revised:** 12/29/2017

#### 1. IDENTIFICATION

**Product identifier:**

Trade Name:

**Solve 9290X**

**Company Identification:**

WaterSolve, LLC

5031 68th Street

Caledonia, Michigan 49316, USA [www.gowatersolve.com](http://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 the Substance/Mixture: Industrial chemical

#### 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200**

**Eye irritation:**

**Category 2A**

**GHS LABEL ELEMENTS**

**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. ; 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 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.

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 eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.

If swallowed 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 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. FIREFIGHTING 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> ) Dry chemical
Unsuitable extinguishing media	High volume water jet
Specific hazards during	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 (CO <sub>2</sub> ) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) 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 firefighters	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:

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 <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**

Provide sufficient mechanical (general and/or local exhaust) 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.

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

9.        **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	viscous
Colour:	White
Odour:	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
Upper explosion limit/Upper flammability limit:	7% (V) GLP: Calculated Explosive Limit
Lower explosion limit/Lower flammability limit:	0.6% (V) GLP: Calculated Explosive Limit
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 <sup>3</sup>
Solubility(ies)	
Water solubility:	Soluble
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Decomposition temperature:	No data available
Viscosity	
Viscosity, dynamic	No data available
Viscosity, kinematic	> 20.5 mm <sup>2</sup> /s (40°C) Based on a similar product formulation.
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 oxidizers agents strong reducing agents.
Hazardous decomposition Products:	Carbon monoxide Carbon dioxide (CO <sub>2</sub> )

Nitrogen oxides (NOx)  
Hydrocarbons

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: 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.

**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 and/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: LC50 (Cyprinodon variegatus (sheepshead minnow)): >100 mg/l  
Exposure time: 96 h  
Method: EPA-821-R-02-012  
GLP: no

LC50 (Pimephales promelas (fathead minnow)): 26.5 mg/l  
Exposure time: 96h  
Method: OECD Test Guideline 203  
Remarks: Test conducted using environmentally representative water.

Toxicity to daphnia and other Aquatic invertebrates: EC50 (Water flea (Ceriodaphnia dubia)): 5.66 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Test conducted using environmentally representative water.

EC50 (Mysidopsis bahia (opossum shrimp)): 1.15 mg/l  
Exposure time: 48 h  
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: 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 algae/aquatic plants: ErC50 (Green algae): > 0.1 – 1.0 mg/l  
Exposure time: 96h  
Test type: static test

Toxicity to daphnia and other Aquatic invertebrates (Chronic toxicity): EC50 (Daphnia (Water flea)): 0.17 mg/l  
Exposure time: 21d

### **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:**

TSCA: All substances listed as active on the TSCA Inventory  
TSCI: Not in compliance with the inventory  
DSL: This product contains one or several component 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

**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