



Solve 9510

Safety Data Sheet

Date Issued: 05/05/2017

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1. **PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Solve 9510
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)

29 CFR 1910.1200 (OSHA HazCom 2012)

2. **HAZARDS IDENTIFICATION**

GHS CLASSIFICATION

Combustible Dust Category 1

GHS Label element

Signal word: Warning

Hazard statements: May form combustible dust concentrations in air.

Other hazards: None known

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

Hazardous Components

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

No hazardous ingredients.

4. **FIRST AID MEASURES**

General Advice: No hazards which require special first aid measures.

If swallowed: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not give milk or alcoholic beverages. Never give anything by mouth to a drowsy or unconscious person. If possible, do not leave individual unattended. If symptoms persist, call a physician.

In case of Skin Contact: First aid is not normally required. Remove contaminated clothing and shoes without delay. It is recommended that exposed areas be cleaned by washing with soap and water. Do not reuse contaminated clothing without laundering. Get medical attention if irritation develops or persists.

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 Inhalation: Move to fresh air. If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. Consult a physician after significant exposure.

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), cough, headache, shortness of breath, lung irritation, drowsiness, confusion, 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.

Unsuitable extinguishing media: High volume water jet.

Specific hazards during firefighting: Organic dusts at sufficient concentration can form explosive mixtures in air. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:

Carbon dioxide and carbon monoxide, Nitrogen oxides (NO_x), acid vapors, ammonia, sulfur oxides

Specific extinguishing methods: Product is compatible with standard fire-fighting agents.

Further information: Standard procedure for chemical fires. When product is wet it causes a danger for slipping. 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, firefighters, and others exposed, wear self-contained breathing apparatus and protective suit. Wear full firefighting protective clothing. Use NIOSH/MSHA approved respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing dust. 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. Material can create slippery conditions. Comply with all federal, state, and local regulations.

Environmental precautions:

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system. Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers, for disposal.

Other information:

Comply with all applicable federal, state and local regulations.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion:

Take measures to prevent the buildup of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed.

ADVICE ON SAFE HANDLING:

Avoid dust formation. Provide sufficient air exchange and /or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and / or solid), all hazard precautions given in the data sheet must be observed. This material is slippery when wet. Do not eat, drink or smoke when using this product. For personal protection (see Section 8). Dispose of rinse water in accordance with local and state and national regulations. Handle in accordance with good industrial hygiene and safety practice.

CONDITIONS FOR SAFE STORAGE:

Keep container tightly closed in a dry and well-ventilated place. No smoking. Keep away from food and drink. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards. Store in original container in a cool, dry ventilated area.

8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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. Provide appropriate exhaust ventilation at places where dust is formed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin and eyes. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection:

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

Hand protection:

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

Eye protection

Safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

Wear as appropriate dust impervious protective suit, safety shoes. Choose body protections according to the amount and concentration of the dangerous substances at the work place. Wear resistant gloves (consult with your safety equipment supplier). Launder clothing before reuse.

Hygiene measures: Avoid breathing dust. Wash hands before breaks and at the end of the workday. When using do not eat, drink or smoke when using this product.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	powder
Physical state:	solid
Color:	White
Odor:	odorless
Odor threshold:	No data available
pH:	(ca.) 7 @ 10 g/l (20°C)
Melting point/freezing point:	Not applicable
Boiling Point boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour Density:	No data available
Relative density:	No data available
Density:	ca. 0.72 g/cm ³
Bulk Density:	(ca.) 650 kg/m ³
Solubility in Water:	Soluble
Solubility in other solvents:	No data available
Partition coefficient: n- Octanol/water:	Not applicable
Thermal decomposition:	No data available
Viscosity, dynamic	(>) 40 mPa.s @ 20°C
Viscosity, kinematic:	No data available
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: Keep away from heat, flames, sparks and other ignition sources.
Incompatible Materials: Chlorates, chlorine, nitrates, acids, oxidizers agents, strong bases, Peroxides
Hazardous decomposition products: nitrogen oxides, Sulphur oxides, ammonia

11. **TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure: Inhalation, skin contact, eye contact, ingestion

Acute toxicity: Not classified based on available information.

Product:

Acute oral Toxicity: LD 50 Mouse: > 5,000 mg/kg

Skin corrosion/irritation:

Not classified based on available information.

Product:

Result: Not irritating to skin.

Product:

Serious eye damage/eye irritation:

Not classified based on available information.

Product:

Result: Mildly irritating to eyes

Assessment:

Mildly irritating to eyes.

Remarks: Unlikely to cause eye irritation or injury. Product dust may be irritating to eyes, skin and respiratory system.

Respiratory or skin sensitization:

Skin sensitization:

Not classified based on available information

Respiratory sensitization:

Not classified based on available information

Product:

Species: Guinea pig

Assessment:

Did not cause sensitization on laboratory animals.

Method:

OECD Test Guideline 406

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:

Not classified based on available information

STOT – repeated exposure:

Not classified based on available information

Aspiration toxicity:

Not classified based on available information

Product:

No aspiration toxicity classification

Further information

Product:

No data available

Carcinogenicity:

12. **ECOLOGICAL INFORMATION**

Ecotoxicity

Product:

Toxicity to fish: LC 50 Golden orfe (*Leuciscus idus*): > 150 mg/l
Exposure time: 96hr. Method: OECD Test Guideline 203

Bacteria: EC 50 (*Pseudomonas putida*): > 2,500 mg/l
Exposure time: 24hr.

Persistence and degradability

Product:

Physico-chemical removability: Remarks: The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Components: No data available

Other adverse effects: No data available

Product: Additional ecological information: No data available

13. **DISPOSAL CONSIDERATIONS**

Disposal methods:

General Advice: Do not dispose of waste into sewer. 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

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

TDG

Not regulated as a dangerous good.

15. **REGULATORY INFORMATION**

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.
AUSTR: On the inventory, or in compliance with the inventory.
ENCS: On the inventory, or in compliance with the inventory.
KECL: On the inventory, or in compliance with the inventory.
PHIL: On the inventory, or in compliance with the inventory.
IECSC: On the inventory, or in compliance with the inventory.

16. **OTHER INFORMATION**

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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. 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