



Solve 152

Safety Data Sheet

Date Issued: 06/10/2021

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1. IDENTIFICATION

PRODUCT NAME:

SOLVE 152

Use of the Substance/mixture: Water treatment chemical

Recommended restrictions on use:

COMPANY:

WaterSolve, LLC, 5031 68th St. S.E. Caledonia, MI 49316, USA
For Product information call 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)

2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation; Category 2

GHS-Labeling

Hazard pictograms



Signal Word:

WARNING

Hazard statements:

H319

Causes serious eye irritation.

Precautionary Statements:

Prevention:

P264

P280

Wash hands thoroughly after handling.

Wear protective gloves/ protective clothing/
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.

Hazards otherwise not classified (HNOC) or not covered/classified by GHS

Advice: Contaminated surfaces will be extremely slippery.

Potential environmental effects: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures

Chemical nature

Anionic polyacrylamide, emulsion.

Hazardous components

CHEMICAL NAME	CAS-NO.	CONCENTRATION %
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 26 %
Alcohols, C10-16, ethoxylated	68002-97-1	0 – 2.5 %
Alcohols, C12-16, ethoxylated	68551-12-2	0 – 2.5 %
Alcohols, C12-14, ethoxylated	68439-50-9	0 – 2.5 %

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

4. FIRST AID MEASURES

Description of first aid measures

General Advice: Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth with water. Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Consult a physician if necessary. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes, also under eyelids. If eye irritation persists, consult a specialist.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed.

Symptoms: No information available.

Hazards: No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Treatment: Symptomatic treatment.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, carbon dioxide (CO₂), or dry chemical.

Unsuitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Hazards arising from the substance or mixture: Contaminated surfaces will be extremely slippery.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus and protective suit. Use NIOSH/MSHA approved respiratory protection.

Further information: In the event of fire, cool tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For personal protection see Section 8. Avoid contact with skin, eyes and clothing. Where the exposure level is not known, wear approved, positive pressure, self-contained respirator. Where the exposure level is known, wear approved respirator suitable for the level of exposure.

Environmental precautions

Should not be released into the environment.

Methods and materials for containment and cleaning up

Sweep up to prevent slipping hazard. Soak up with inert absorbent material. Take up mechanically and collect into suitable containers for disposal. Flush with water. Use detergent if needed.

Additional advice

No information available.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container. Flashpoint determination was performed using a Pensky Martens type closed cup method. The method indicates a flash point greater than 93.3 °C (200°F). Although there was no flashpoint detected below 93.3 °C (200°F) some flammable vapours were evolved during the test as evidenced by the enlargement of the flame. Therefore caution should be exercised during storage and handling.

Materials for packaging

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers of equipment.

Material to avoid:

Strong oxidizing agent.

Storage stability:

Storage temperature: 41 – 80.6 °F

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Components	CAS-No.	Value	From of exposure	Control parameters	Update	Basis
Distillates (petroleum), hydrotreated light	64742-47-8		Vapour	197 ppm 1,200 mg/m ³		

Appropriate Engineering controls:

Ensure adequate ventilation. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to workstation location. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Industrial Hygiene

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product.

Respiratory protection

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection

Glove material: Impervious gloves. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Eye protection

Tightly fitting safety goggles.

Skin and body protection

Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	liquid
Form:	viscous
Odor:	hydrocarbon-like
Color:	white
Odor threshold:	not determined
pH:	6-8 (diluted liquid)
Freezing/Melting point:	-0.4°F
Initial Boiling Point/Range:	ca. 212 °F in water
Flash point:	> 199.4 °F
Evaporation rate:	< 1 (n-Butyl acetate = 1)
Flammability (solid, gas)	Not classified as a flammability hazard
Explosive properties	
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Vapor Pressure:	similar to water
Relative vapor density:	similar to water
Density:	8.47 lb/gal
Relative density:	No data available
Bulk density:	1.017 kg/m ³
Solubility in Water:	Limited by viscosity
Partition coefficient:	
n-octanol/water:	Not applicable
Auto-ignition temperature	> 150 °C
Decomposition temp:	> 302 °F
Viscosity, dynamic:	No data available
Viscosity, kinematic:	> 20.5 mm ² /s (104 °F)
Oxidizing potential:	The substance or mixture is not classified as oxidizing.
Surface tension:	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not classified as a reactivity hazard.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Material is stable under normal conditions.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂), Ammonia, nitrogen oxides (NO_x)

11. **TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute oral toxicity	LD50/Rat/> 10,000 mg/kg Remarks: estimated
Acute oral toxicity	Distillates (petroleum), hydrotreated light: LD50/Rat/>5,000 mg/kg
Acute inhalation toxicity	LC50/4 h/> 20mg/l Remarks: estimated
Acute inhalation toxicity	Distillates (petroleum), hydrotreated light: LC50/Rat/4 h/>5.2 mg/l
Acute dermal toxicity	LD50/Rabbit/> 10,000 mg/kg Remarks: estimated
Acute dermal toxicity	Distillates (petroleum), hydrotreated light: LD50/Rabbit/>2,000 mg/kg
Skin corrosion/irritation	OECD Test Guideline 439/Read-across (Analogy) Conclusion: No skin irritation.
Serious eye damage /eye irritation	Calculation method Conclusion: Causes serious eye irritation.
Respiratory or skin sensitization	
Skin sensitization	Conclusion: Not sensitizing.
Skin sensitization	Distillates (petroleum), hydrotreated light: Conclusion: This substance is not classified as a sensitizer.
Germ cell mutagenicity	
Genotoxicity in vitro:	Distillates (petroleum), hydrotreated light: Conclusion: No known effect.
Genotoxicity in vivo:	Distillates (petroleum), hydrotreated light: Conclusion: not mutagenic

Carcinogenicity

Distillates (petroleum), hydrotreated light:
Not classified by IARC or NTP.

Reproductive toxicity

Distillates (petroleum), hydrotreated light:
Conclusion: Did not show teratogenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment.

LC50/96h/Lepomis macrochirus (Bluegill sunfish)/Acute toxicity/OECD Test Guideline 203:> 100 mg/l

Remarks: fresh water

LC50/96h/Branchydanio rerio (Zebra fish)/Acute toxicity/OECD Test Guideline 203: >100 mg/l

Remarks: fresh water

EC50/96h/Daphnia magna (Water Flea) /OECD Test Guideline 202: >100mg/l

IC50/72h/Green algae (Seleanastrum capricomutum)/OECD Test Guideline 201: > 100mg/l

Toxicity to other organisms

No data available.

Persistence and degradability

Biological degradability: CO2 Evolution Test/OECD Test Guideline 301B:

The polymeric ingredient is not readily biodegradable.

Bioaccumulative potential

Partition coefficient: n-octanol/water: Not applicable

Mobility in soil

Water solubility: Limited by viscosity.

Surface tension: Not determined

Other adverse effects

No data available

Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product.

13. DISPOSAL CONSIDERATIONS

Product

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging

Dispose of in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Land transport

Not classified as dangerous in the meaning of transport regulations.

Store between 5-30°C

Protect from frost.

Keep away from direct sunlight.

Sea Transport

Not classified as dangerous in the meaning of transport regulations.
Store between 5-30°C
Protect from frost.
Keep away from direct sunlight.

Air transport

Not classified as dangerous in the meaning of transport regulations.
Store between 5-30°C
Protect from frost.
Keep away from direct sunlight.

Special precautions for user

No data available.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311 Categories:

Eye irritation, Category 2,

SARA 302 Extremely Hazardous Substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313- Specific Toxic Chemical Listings

This product 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 Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Acrylamide (79-06-1) < 0.1%

Other regulations: None

Notification status:

USA: All components of this product are included on the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.

European Union: All components of this product are included on the Canada Domestic Substances List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).

Canada: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) Inventory.

South Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Taiwan: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

16. **OTHER INFORMATION**

NFPA RATING

Health: 2
Fire: 1
Reactivity: 0

HMIS Rating:

Health: 2
Flammability: 1
Reactivity: 0

Training advice: Read the Safety Data Sheet before using the product.

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
SDS: Safety Data Sheet
STEL: Short-term exposure limit
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