



Solve 2220A

Safety Data Sheet

Date Issued: 06/01/2015

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE COMPANY/UNDERTAKING

PRODUCT NAME: **SOLVE 2220A**
TYPE OF PRODUCT: Mixture
Relevant identified uses: Processing aid for industrial applications
Use advised against: None
COMPANY: WaterSolve, LLC, 5031 68TH Street Caledonia, Michigan 49316, USA
For Product information call 616-575-8693. www.gowatersolve.com
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)

According to Federal Regulation 29 CFR 1910.1200

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture
Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Not classified
- 2.2 Label elements
Label according to paragraph (f) of Regulation 29 CFR 1910.1200:
Hazards symbol(s): None
Signal Word: None
Hazard statement(s): None
Precautionary Statements: None
- 2.3 Other hazards: Spills produce extremely slippery surfaces.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable, this product is not a substance.

3.2 Mixtures

Hazardous Components:

Chemical Name	CAS Number	Concentration / -range:
Distillates (petroleum), hydrotreated light	64742-47-8	20 – 45%

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Asp. Tox. 1; H304

Notes:

Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm²/s measured at 40°C.

Chemical Name	CAS Number	Concentration / -range:
Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched	127087-87-0	< 2.5%

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Acute Tox. 4; H302, Acute Tox. 4; H332, Eye Damage 1; H318,

For explanation of abbreviations see Section 16.

4. **FIRST AID MEASURES**

4.1 Description of first aid measures

Inhalation: Move to fresh air. No hazards which require special first aid measures.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Alternatively, rinse immediately with Diphoterine®. Get prompt medical attention.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

None under normal use.

4.3 Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information

None

5. **FIRE FIGHTING MEASURES**

Precautions: SPILLS PRODUCE EXTREMELY SLIPPERY SURFACES.

5.1 Extinguishing media

Suitable extinguishing media: Water, water spray, foam, carbon dioxide (CO₂), dry powder.

Unsuitable extinguishing media: None.

5.2 Specific Hazards arising from the substance or mixture

Hazardous decomposition products: Carbon Oxides, Nitrogen Oxides, Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3 Advice for fire-fighters

Protective measures:

Wear self-contained breathing apparatus and protective suit.

Other information: Spills produce extremely slippery surfaces.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

Protective equipment: Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures:

Keep people away from spill/leak.

6.2 Environmental precautions: Do not contaminate water.

6.3 Methods and material for containment and cleaning up:

Small spills: Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large spills: Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.

Residues: Soak up with inert absorbent material. After cleaning, flush away traces with water.

6.4 Reference to other sections.

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling:** Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

7.2 **Conditions for safe storage, including any incompatibilities:** Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

7.3 **Specific end use(s):** None.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters:

Occupational exposure limits:

Distillates (petroleum), hydrotreated light: ACGIH: 200 mg/m³ (8-hour)

8.2 Exposure controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Individual protection measures, such as Personal protection equipment:

c) Respiratory protection: No personal respiratory protective equipment normally required.

i) Hand Protection: PVC or other plastic material gloves.

a) Eye/face protection: Safety glasses with side-shields. Do not wear contact lenses.

b) Skin protection: Wear coveralls and/chemical resistant apron and rubber footwear where splashing or contact with solution is likely.

d) Hygiene measures: Wash hands and face before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

a) Appearance: viscous liquid, milky

b) Odor: aliphatic

c) Odor threshold: No data available

d) pH: 7 - 11 @ 5 g/l

e) Melting point/range: < 5 °C

f) Initial boiling point/range: > 100°C

g) Flash point (°C): Does not flash.

h) Evaporation rate: No data available

i) Flammability (solid, gas): Not applicable

j) Upper/lower flammability/explosive limits: Not expected to create explosive atmospheres

k) Vapor pressure (mmHg): 2.3 kPa @ 20°C

m) Relative density: 1.0 – 1.1

n) Solubility: completely miscible

o) Partition coefficient: Not applicable

p) Autoignition temp. (°C): No data available

q) Decomposition temperature: > 150°C

r) Viscosity: >20.5 mm²/s @ 40°C

s) Explosive properties: Not expected to be explosive based on the chemical structure.

t) Oxidizing properties: Not expected to be oxidizing based on the chemical structure.

9.2 other information: None

10 STABILITY AND REACTIVITY

10.1 Reactivity: Stable under recommended storage conditions.

10.2 Chemical Stability: Product is stable under recommended storage conditions.

10.3 Possibility of Hazardous reactions: Oxidizing agents may cause exothermic reactions.

10.4 Conditions to avoid: Protect from frost, heat and sunlight.

10.5 Incompatible materials: Oxidizing agents.

10.6 Hazardous decomposition products: Thermal decomposition may produce: nitrogen oxides, carbon oxides, hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the product as supplied:

Acute Oral toxicity:	LD50/oral/rat > 5,000 mg/kg
Acute Dermal toxicity:	LD50/dermal/rat > 5,000 mg/kg
Acute Inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Non-irritating to skin.
Serious Eye damage/ irritation:	Slightly irritating.
Respiratory/skin Sensitization:	Not sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive Effects:	Not toxic for reproduction.
STOT single exposure:	No known effects.
STOT- repeated exposure:	No known effects.
Aspiration hazard:	Due to the viscosity, this product does not present an aspiration hazard.

Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light

Acute toxicity:	
Oral:	LD50/oral/rat > 5000 mg/kg (OECD 401)
Dermal:	LD50/dermal/rabbit > 5000 mg/kg (OECD 402)
Inhalation:	LC50/inhalation/4 h/rat = 4951 mg/m ³ (OECD 403)
Skin corrosion/irritation:	Non-irritating to skin. (OECD 404). Repeated exposure may cause skin dryness or cracking.
Serious Eye damage/ irritation:	Non irritating (OECD 405).
Respiratory/skin Sensitization:	By analogy with similar products, this product is not expected to be sensitizing. (OECD 406).
Mutagenicity:	Not mutagenic. (OECD 471,473,474,476,478,479).
Carcinogenicity:	Carcinogenicity study in rats (OECD 451): Negative
Reproductive toxicity:	By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL/rat=300 ppm (OECD 421).
STOT single exposure:	No known effects.
STOT- repeated exposure:	NOAEL/oral/rat/90 days >= 3000 mg/kg/day (OECD 408) (Based on results obtained from tests on analogous products).
Aspiration hazard:	May be fatal if swallowed and enters airways.

Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched

Acute Oral Toxicity:	LD50/oral/rat = 960 - 3980 mg/kg
Dermal:	LD50/dermal/rabbit = 2000 - 2991 mg/kg
Inhalation:	LC50/inhalation/4h/rat=1.15 mg/L
Skin Corrosion/Irritation:	May cause slight irritation.
Serious eye damage/eye irritation:	Risk of serious damage to eyes.
Respiratory /skin Sensitization:	Did not cause allergic skin reactions when tested in humans.
Mutagenicity:	In vitro tests did not show mutagenic effects.

Carcinogenicity:	Animal testing did not show any carcinogenic effects.
Reproductive toxicity:	No toxicity to reproduction.
STOT – single exposure:	No known effects.
STOT –repeated exposure:	No known effects.
Aspiration hazard:	No known effects.

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ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

Aquatic Toxicity

Toxicity to Fish:	LC50/Fish/96 hr > 100 mg/L
Toxicity to invertebrates:	EC50/Daphnia /48 hr >100mg/L
Toxicity to Algae:	IC50/Daphnia /72 hr >100mg/L
Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to microorganisms:	No data available
Sediment toxicity:	No data available.

Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light

Acute Toxicity to Fish:	LC0/Oncorhynchus mykiss/ 96hr. > 1000 mg/L (OECD 203)
Acute Toxicity to Algae:	IC0/Pseudokirchneriella subcapitata/ 72 hr. > 1000 mg/L (OECD 201)
Acute Toxicity to invertebrates:	EC0/Daphnia magna/48 hr = > 1000 mg/L (OECD 202)
Chronic toxicity to fish:	NOEC/oncorhynchus mykiss/28days>1000mg/l
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days >1000 mg/l
Toxicity to microorganisms:	EC50/Tetrahymena pyriformis/48 h >1000 mg/l
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available. Readily biodegradable, exposure to sediment is unlikely.

Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched

Acute Toxicity to Fish:	LC50/Pimephales promelas/ 96hr. = 3.8 – 6.2 mg/L
Acute Toxicity to Algae:	No data available
Acute Toxicity to invertebrates:	EC50/Daphnia magna/48 hr = 9.3 – 21.4 mg/L
Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to microorganisms:	EC50/activated sludge/16 h > 1000 mg/ L
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available.

12.2 Persistence and degradability

Information on the product as supplied:

Degradation:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyse.
Photolysis:	No data available

Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light

Degradation:	Readily biodegradable
Hydrolysis:	Does not hydrolyse.
Photolysis:	No data available.

Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched

Degradation:	Not readily biodegradable. < 60% / 28 days (OECD 301 B)
Hydrolysis:	No data available.

Photolysis: No data available.

12.3 Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient LogPow: Not applicable

Bioconcentration factor (BCF): No data available

Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light

Partition co-efficient LogPow: 3 - 6

Bioconcentration factor (BCF): No data available

Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched

Partition co-efficient LogPow: 2.1 – 3.4

Bioconcentration factor (BCF): 5.9 - 48

12.4 Mobility in soil

Information on the product as supplied: No data available

Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light: Koc: No data available

Poly (oxy-1,2-ethanediyl), a(4-nonylphenyl)-w-hydroxy-, branched:

Koc: No data available.

12.5 Other adverse effects: none

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues /unused products:

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

Contaminated packaging:

If recycling is not practicable, dispose of in compliance with local, state and federal regulations.

Recycling: The product and its packaging are not suitable for recycling.

14. TRANSPORT INFORMATION

Land Transport (DOT) Not classified.

Sea Transport (IMDG) Not classified.

Air Transport (IATA) Not classified.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substances or mixture

Information on the product as supplied:

USA (TSCA) Chemical Substances Inventory: All components of this product are either listed on the inventory or are exempt from listings.

US SARA Reporting requirements:

SARA (SECTION 311/312) hazard class: Not concerned

RCRA Status: Not RCRA hazardous.

California Proposition 65 Information: WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

16. **OTHER INFORMATION**

HMIS & NFPA Rating	HMIS	NFPA
Health:	0	0
Flammability:	1	1
Reactivity:	0	0
Personal Protection Special:	B	

Key or legend to abbreviations and acronyms used in the safety data sheet:

Abbreviations

Acute Tox. 4= Acute toxicity Category Code 4

Asp. Tox. 1=Aspiration hazard Category Code 1

Eye Dam 1 + Serious eye damage/eye irritation Category Code 1

H-Phrases

H302-Harmful if swallowed

H304-May be fatal if swallowed and enters airways

H318-Causes serious eye damage

This SDS was prepared in accordance with the following:

Federal Regulation 29 CFR 1910.1200

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Revision number: 15.01 a

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
LC_{xx}: Lethal Concentration, for xx percent of test population
LD_{xx}: Lethal Dose, for xx percent of test population
IC_{xx}: Inhibitory Concentration for xx of a substance
EC_{xx}: 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