



Solve 3303

Safety Data Sheet

Date Issued: 06/28/2018

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

PRODUCT NAME: **SOLVE 3303**

PRODUCT TYPE: Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: All non-professional uses.

1.3 Details of the supplier of the safety data sheet

COMPANY: [WaterSolve, LLC, 5031 68th Street, Caledonia, Michigan 49316, USA](#)
For Product information call 616-575-8693. www.gowatersolve.com

1.4 Emergency telephone number

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

U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication

2.1 Classification of the substance or mixture

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200:

Eye Irrit. 2A;H319

2.2 Label elements

Labeling according to paragraph (f) of Regulation 29 CFR 1910.1200:

Hazard symbol(s):



Signal word:

Warning

Hazard statement(s):

H319- Causes serious eye irritation

Precautionary statement(s):

P280-Wear eye protection/face protection

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 advise/attention

2.3 Other hazards

Spills produce extremely slippery surfaces.

For explanation of abbreviations see Section 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable, this product is a mixture.

3.2 Mixtures: This product is a mixture.

Hazardous components:

Tannins, ammonium salts

Concentration/-range: 20-50%

CAS Number: 71631-09-9

Classification according to Paragraph (d) of 29 CFR 1910.1200:

Eye Irrit. 2A;H319

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Wash off immediately with plenty of water. Consult a physician if necessary.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes.

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

No information available.

Other Information: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off all contaminated clothing immediately.

5. **FIRE-FIGHTING MEASURES**

5.1 Extinguished media

Suitable extinguishing media: Water, water spray, foam, carbon dioxide (CO₂), dry powder.
WARNING! SPILLS PRODUCE EXTREMELY SLIPPERY SURFACES.

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture:

Hazardous decomposition products:

Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), sulfur oxides (SO_x).

5.3 Advice for fire-fighters

Protective measures: Wear self-contained breathing apparatus for fire fighting if necessary.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures.

Personal precautions: Avoid contact with eyes.

Protective equipment: Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures: Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions: The product should not be allowed to enter drains, water courses or the soil

6.3 Methods and material for containment and cleaning up

Small spills: Do not flush with water. Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.

Large spills: Do not flush with water. Soak up with inert absorbent material. Shovel into suitable container for disposal.

Residues: After cleaning, flush away traces with water.

6.4 Reference to other sections

Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 13: Disposal considerations

7. **HANDLING AND STORAGE**

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use person protective equipment.

7.2 Conditions for safe storage, including any incompatibilities.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible with acids and bases. Incompatible with oxidizing agents.

7.3 Specific end use(s)

This information is not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limits:

None known.

8.2 Exposure controls

Appropriate engineering controls:

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

Individual protection measures, such as personal protective equipment:

- a) **Eye/face protection:** Safety glasses with side-shields. Tightly fitting safety goggles.
- b) **Skin protection:**
 - i) **Hand protection:** Impervious gloves. Be aware that liquid may permeate gloves, frequent change is advised. Suitable gloves can be recommended by the glove supplier.
 - ii) **Other:** Protective suit.
- c) **Respiratory protection:** No personal respiratory protective equipment required. In case of insufficient ventilation wear suitable respiratory equipment.

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:** Liquid, Brown.
- b) **Odor:** No data available.
- c) **Odor threshold:** No data available.
- d) **pH:** 2-8
- e) **Melting point/freezing point:** < 0°C
- f) **Initial boiling point /boiling range:** > 100°C
- g) **Flash point:** 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:** No data available.
- l) **Vapor density:** No data available.
- m) **Relative density:** 1.0 – 1.2

n) Solubility:	Completely miscible in water.
o) Partition coefficient:	~0
p) Autoignition temperature:	Does not self-ignite (based on the chemical structure).
q) Decomposition temperature:	No data available.
r) Viscosity:	See technical bulliten.
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: Stable at normal ambient temperature and pressure.

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

10.4 Conditions to avoid: Keep away from heat and sources of ignition. Protect from light. Protect from contamination.

10.5 Incompatible materials: Incompatible with acids and bases. Incompatible with oxidizing agents.

10.6 Hazardous decomposition products: No decomposition if stored and applied as directed. Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), sulfur oxides (SO_x).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the product as supplied:

Acute Oral toxicity:	LD50/oral/rat > 2000 mg/kg.
Acute Dermal toxicity:	LD50/dermal/rat > 2000 mg/kg.
Acute Inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating.
Serious Eye damage/ irritation:	Irritating to eyes.
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:	No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

Tannins, ammonium salts

Acute Oral toxicity:	LD50/oral/rat > 2000 mg/kg. (OECD 420)
Acute Dermal toxicity:	LD50/dermal/rat > 2000 mg/kg. (OECD 402)
Acute Inhalation toxicity:	This product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating. (OECD 404)
Serious Eye damage/ irritation:	Irritating to eyes. (OECD 405)
Respiratory/skin Sensitization:	This product is not expected to be sensitizing.
Mutagenicity:	Not mutagenic. (OECD 474) Negative in the Ames Test (OECD 471) Negative in the In Vitro Mammalian Chromosome Aberration Test (OECD 473).
Carcinogenicity:	Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic.

Reproductive Toxicity: NOAEL/rat = 1000 mg/kg/day. (OECD 422)
STOT single exposure: No known effects.
STOT- repeated exposure: NOAEL/oral/rat/54 days = 1000 mg/kg/day (OECD 422)
Aspiration hazard: No known effects.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to fish: LC50/Pimephales promelas/96 hrs. > 100mg/L
Acute toxicity to invertebrates: EC50/Daphnia magna/48 hours > 50 mg/L
Acute toxicity to Algae: IC50/Algae/72 hours > 50 mg/L
Chronic toxicity to fish: No data available
Chronic toxicity to invertebrates: No data available
Toxicity to microorganisms: No data available.
Effects on terrestrial organisms: No data available. Readily biodegradable, exposure to soil is unlikely.
Sediment toxicity: No data available. Readily biodegradable exposure to sediment is unlikely.

Relevant information on the hazardous components:

Tannins, ammonium salts

Acute toxicity to fish: LC50/Pimephales promelas/96 hours = 67.1 mg/L (OECD 203)
Acute toxicity to invertebrates: EC50/Daphnia magna/48 hours = 13.2 mg/L. (OECD 202)
Acute toxicity to Algae: IC50/Algae/72 hours = 15 mg/L
Chronic toxicity to fish: No data available
Chronic toxicity to invertebrates: No data available.
Toxicity to microorganisms: No data available.
Effects on terrestrial organisms: No data available. Readily biodegradable, exposure to soil is unlikely.
Sediment toxicity: No data available. Readily biodegradable, exposure to sediment is unlikely.

12.2 Persistence and degradability

Information on the product as supplied:

Degradation: Readily biodegradable.

Hydrolysis: No data available.

Photolysis: No data available.

Relevant information on the hazardous components:

Tannins, ammonium salts

Degradation: Readily biodegradable. 100% / 20 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 (Log Pow): ~0

Bio concentration factor (BCF): No data available.

Relevant information on the hazardous components:

Tannins, ammonium salts

Partition co-efficient (Log Pow): 0.3 @ 25°C (OECD 117)

Bio concentration factor (BCF): No data available.

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

Tannins, ammonium salts

Koc: No data available.

12.5 Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues /unused products:

Dispose of in accordance with local and national regulations.

Contaminated packaging: Rinse empty containers with water and use the rinse-water to prepare the working solution. Reuse or recycle container after thorough cleaning.

Recycling: Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

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:

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: Acute.

SARA Title III Sections:

Section 302 (TPQ)-Reportable Quantity: Not concerned.

Section 304-Reportable Quantity: Not concerned.

Section 313 (De minimis concentration): Not concerned.

Clean Water Act:

Section 311 Hazardous Substances (40 CFR 117.3)- Reportable Quantity:

Not concerned.

Clean Air Act:

Section 112(r) Accidental release prevention requirements (40 CFR 68)- Reportable Quantity:

Not concerned.

CERCLA:

Hazardous Substances List (40 CFR 302.4)- Reportable Quantity:

Not concerned.

RCRA Status:

Not RCRA hazardous.

California Proposition 65 Information:

WARNING! This product contains a chemical known in the State of California to cause cancer, Formaldehyde (gas).

16. OTHER INFORMATION

NFPA Rating

Health:	1
Flammability:	0
Instability:	0

HMIS

Health:	1
Flammability:	0
Physical Hazard:	0
PPE Code:	B

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

Acronyms:

STOT = Specific target organ toxicity

Abbreviations

Eye Irrit. 2A = Serious eye damage/eye irritation Category Code 2A

Hazard Statements

H319 – causes serious eye irritation.

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 information 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:

AICS: Australian Inventory of Chemical Substances
ASTM: American Society for the Testing of Materials
ACGIH: American Conference of Industrial Hygienists
bw: Body Weight
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
DIN: Standard of the German Institute for Standardization
DSL: Domestic Substances List (Canada)
ECx: Concentration associated with x% response
EmS: Emergency Schedule
ENCS: Existing and New Chemical Substances
ErCx: Concentration associated with x% growth rate response
ERG: Emergency Response Guide
FG: Food grade
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
GLP: Good laboratory practice
H-statement: Hazard Statement
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)
IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Half maximal inhibitory concentration
ICAO: International Civil Aviation Organization
ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"
IECSC: Inventory of Existing Chemical Substances in China
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
ISHL: Industrial Safety and Health Law (Japan)
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
KECI: Korea Existing Chemicals Inventory
MARPOL: International Convention for the Prevention of Pollution from Ships
MSHA: Mine Safety and Health Administration
n.o.s.: Not otherwise Specified
NFPA: National Fire Protection Association
NO(A)EC: No Observable Effect Loading Rate
NO(A)EL: No Observable (Adverse) Effect Level
NTP: National Toxicology Program
NIOSH: National Institute for Occupational Safety and Health
NOELR: No Observable Effect Loading Rate
NZIoC: New Zealand Inventory of Chemicals
OECD: Organization for Economic Co-operation and Development
OPPTS: Office of Chemical Safety and Pollution Prevention
OEL: Occupational Exposure Limit
OSHA: Occupational Safety and Health Administration
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PICCS: Philippines Inventory of Chemicals and Chemical Substances
PMRA: Health Canada Pest Management Regulatory Agency
PPE: Personal Protective Equipment
Q SAR: (Quantitative) Structure Activity Relationship
RCRA: Resource Conservation and Recovery Act
REACH: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the
Registration, Evaluation, Authorization and Restriction of Chemicals
RQ: Reportable Quantity
RTK: Right to Know
SADT: Self Accelerating Decomposition Temperature
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
SDS Safety Data Sheet
STOT: Specific Target Organ Toxicity
TCSI: Taiwan Chemical Substance Inventory
TSCA: Toxic Substances Control Act (United States)
TLV: Threshold Limit Value
TWA: Time-weighted average
UN: United Nations
UNRTDG: United Nations Recommendations on the Transport of Dangerous Goods
vPvB: Very Persistent and Very Bioaccumulative
WEL: Workplace Exposure Level
WHMIS: Workplace Hazardous Materials Information System
(WAF): *water-accommodated fraction*