



Solve 204

Safety Data Sheet

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1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

PRODUCT NAME: **SOLVE 204**

TYPE OF PRODUCT: Mixture

IDENTIFIED USES: Processing aid for industrial applications

USES 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)

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.

Comb. Dusts 1

2.2 Label elements

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

Hazard symbol(s): None

Signal word: WARNING!

Hazard statement(s): May form combustible dust concentrations in air.

Precautionary statement(s): None

2.3 Other hazards

Spills produce extremely slippery surfaces. The product swells in water. The product when wet renders surfaces extremely slippery. Dust can form an explosive mixture in air.

For explanation of abbreviations see Section 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable, this product is not a substance.

3.2 Mixtures

Hazardous components:

Contains no reportable hazardous substances.

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 and thoroughly with plenty of water, also under the eyelids for at least 15 minutes. In case of persistent eye irritation, consult a physician.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed.

None.

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

None.

Other information: The product swells in water.

5. FIRE FIGHTING MEASURES

5.1 Extinguished media

Suitable extinguishing media: Water, water spray, alcohol resistant foam, carbon dioxide (CO₂), dry chemical. **WARNING!** The product when wet renders surfaces extremely slippery.

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture:

Hazardous decomposition products:

Thermal decomposition may produce: 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: In event of fire, wear self-contained breathing apparatus and protective suit.

Other information: The product swells in water. The product when wet renders surfaces extremely slippery. Spills produce extremely slippery surfaces. Potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Personal precautions: The product swells in water. The product when wet renders surfaces extremely slippery. Avoid breathing dust. Remove all sources of ignition. Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

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

Emergency procedures: Keep people away from spill/leak. Prevent leakage or spillage

6.2 Environmental precautions: Do not allow contact with soil, surface or ground water. Prevent product from entering drains. Non-sparking tools should be used. As with all chemicals products, do not flush into surface water. Do not contaminate water.

6.3 Methods and material for containment and cleaning up

Small spills: Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

Large spills: Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

Residues: Flush away with large quantities of water.

6.4 Reference to other sections

Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 9: Physical and chemical properties, Section 13: Disposal considerations

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation. Use only explosion-proof equipment. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Product swells in water. Avoid contact with skin and eyes. The product when wet renders surfaces extremely slippery. When using do not smoke, drink or eat.

7.2 Conditions for safe storage, including any incompatibilities.

Keep in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from heat and sources of ignition. Incompatible with strong acids and oxidizing agents.

7.3 Specific end uses

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits: None

8.2 Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:

- a) **Eye/face protection:** safety glasses with side-shields.
- b) **Skin protection:** Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur. Work clothes protecting arms, legs and body.
- c) **Hand protection:** PVC or other plastic material gloves.
- d) **Respiratory protection:** Ventilated respirator with P3 filter cartridge if respirable dust (particle size < 10 µm) exceeds 0.05 mg/m³. Dust safety masks recommended where working powder concentration is more than 10 mg/m³.
- e) **Additional advice:** Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.

Environmental exposure controls: Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---|--|
| a) Appearance: | Granular solid, white |
| b) Odor: | None |
| c) odor threshold: | Not applicable |
| d) pH: | 5 - 8 @ 5g/L |
| e) Melting point/freezing point: | > 150°C |
| f) Initial boiling point /boiling range: | Not applicable |
| g) Flash point: | Not applicable |
| h) Evaporation rate: | Not applicable |
| i) Flammability (solid, gas): | No data available |
| j) Upper/lower flammability/explosive limits: | Not expected to create explosive atmospheres. |
| k) Vapor pressure: | Not applicable |
| l) Vapor density: | Not applicable |
| m) Relative density: | 0.6 ó 0.9 |
| n) Solubility: | Insoluble in water. |
| o) Partition coefficient: | -2 |
| p) Autoignition temperature: | Does not self-ignite (based on the chemical structure). |
| q) Decomposition temperature: | >150°C |
| r) Viscosity: | Not applicable |
| s) Explosive properties: | Not expected to be explosive based on the chemical structure.
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. |

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. Powdered material may form explosive dust-air mixtures.

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

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

10.6 Hazardous decomposition products: Thermal decomposition may produce: nitrogen oxides, carbon oxides, hydrogen cyanide (hydrocyanic acid).

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: Not irritating.

Serious Eye damage/ irritation: Not 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 effect.

Aspiration hazard: No hazards resulting from the material as supplied.

12. **ECOLOGICAL INFORMATION**

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to Fish: LC50/Danio rerio/96 hr > 100 mg/L (OECD 203)

Acute toxicity to invertebrates: EC50/Daphnia magna /48 hours >100 mg/L (OECD 202)

Toxicity to Algae: IC50/Scenedesmus subspicatus/72 hr > 100 mg/L (OECD 201)

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 known effects.

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

12.3 Bioaccumulative potential

Information on the product as supplied: Not bioaccumulating.

Partition co-efficient LogPow: -2

Bioconcentration factor (BCF): No data available

Information on the product as supplied: None.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues /unused products: Dispose of in accordance with local, state, national and international regulations.

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Dispose of in accordance with local, state, national and international 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

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

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 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:	1	1
Personal Protection Special:	B	

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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. 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