



Solve 412G

Safety Data Sheet

Date Issued: 01/01/2016

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SOLVE 412G

COMPANY: WaterSolve, 5031 68th Street SE, Caledonia, MI 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)

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

Use of the substance/mixture: Deodorant

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification

Not classified

2.2 Label elements

GHS-US labeling: No labeling applicable

2.3 Other hazards

Other hazards not contributing to the classification: None under normal conditions.

2.4 Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable

3.2 Mixture

4. FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general: If exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.

First aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: DO NOT induce vomiting. Drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation: None under normal use.

Symptoms/injuries after skin contact: Contact during a long period may cause slight irritation.

Symptoms/injuries after eye contact: Direct contact with the eyes is likely to be irritating.

Chronic symptoms: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. **FIRE FIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry powder, foam DO NOT use heavy water stream.

5.2 Special hazards arising from the substance or mixture

Explosion hazard: Not explosive.

Reactivity: Product is not explosive.

5.3 Advice for firefighters

Firefighting instructions: Move containers from fire area if it can be done without risk.

Protection during firefighting: Do not attempt to take action without suitable protective equipment.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 Personal Precautions, protective equipment and emergency procedures

General measures: Remove ignition sources.

6.1.1 For non-emergency personnel

No additional information available

6.1.2 For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment.

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: For containment: Collect spillage

Methods for cleaning up: On land, sweep or shovel into original containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Reference to other sections: No additional information available

7. **HANDLING AND STORAGE**

7.1 Precautions for safe handling

Additional hazards when processed: None known.

Precautions for safe handling: Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Ensure good ventilation of the work station. Keep away from sources of ignition- No smoking. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from: Direct sunlight. Protect from moisture.

Incompatible products: Oxidizing agents.

Incompatible materials: Direct sunlight. Heat sources. Sources of ignition.

Maximum storage period: 2 year may darken with age

Storage area: Store away from heat. Store in a well-ventilated place.

Special rules on packaging: Keep only in original container.

Packaging materials: Do not store in corrodible metal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional information available

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Glove, safety glasses, Protective goggles. Dust mask.

Materials for protective clothing:

Wear long sleeves and pants. Immediately remove contaminated clothing and launder before reuse.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Dust mask

Thermal hazard protection: None necessary.

Environmental exposure controls: Avoid release into the environment.

Other information: Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Granular
Color:	Gray to tan, or off white
Odor:	Citrus orange
Odor threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	>98.89°C
Relative evaporation rate (butylacetate=1):	No data available
Flammability (solid, gas):	No data available
Explosive limits:	No data available
Explosive properties:	Product is no explosive.
Oxidizing properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapor density at 20°C:	No data available
Solubility:	Water Dispersible
Low Pow:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Viscosity kinematic:	No data available
Viscosity dynamic:	No data available

9.2 Other information: No additional information available.

10. STABILITY AND REACTIVITY

10.1 **Reactivity:** Product is not explosive

10.2 **Chemical stability:** Stable.

10.3 **Possibility of hazardous reactions:** Hazardous polymerization will not occur.

10.4 **Conditions to avoid:** Direct sunlight. Heat. Sparks. Open flame.

10.5 **Incompatible materials:** Oxidizing agents.

10.6 **Hazardous decomposition products:** Thermal decomposition generates: carbon dioxide, carbon monoxide, smoke. Fullers earth, amorphous silica and Bentonite.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure: Skin and eye contact

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard : Not classified

Symptoms/injuries after Inhalation: None under normal use.

Symptoms/injuries after skin contact: Contact during a long period may cause slight irritation.

Symptoms/injuries after eye contact: Direct contact with the eyes is likely to be irritating.

Chronic symptoms: None known.

Other information: Likely routes of exposure: skin and eyes

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No additional information available.

12.2 Persistence and degradability: No additional information available.

12.3 Bioaccumulative potential: No additional information available.

12.4 Mobility in soil: No additional information available.

12.5 Other adverse effects:

Effects on the global warming: No known ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

Waste disposal recommendations:

Dispose in a safe manner in accordance with local/state/national and international regulations.

14. TRANSPORT INFORMATION

Department of Transportation (DOT): Not regulated for transport

TDG: No additional information available

TRANSPORT BY SEA: No additional information available

AIR TRANSPORT: No additional information available

15. REGULATORY INFORMATION

15.1 US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product of mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR 372.38(a) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2 International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National Regulations

No additional information available

15.3 US State regulations

California Proposition 65-This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

16. OTHER INFORMATION

Revision date: 01/01/2016

HMIS III RATING

Health: 1 Slight Hazard-irritation or minor reversible injury possible.

Flammability: 1 Slight Hazard: Materials that must be preheated before ignition will occur. Includes liquids, solids and semi-solids having a flash point above 200°F (Class III B)

Physical: 0 Minimal Hazard-Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection: E
E-Safety glasses. Gloves. Dust mask

SDS US (GHS HazCom 2012)

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. 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