



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** SpaKleen® Whirlpool Spa Bath Flush Cleaner.

**Other means of identification**

**Product code** 3110

**Recommended use** Surfactant

**Recommended restrictions** For industrial and retail use.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** Simple Solutions MFG, LLC.

**Address** 11860 Summers Rd  
Chesterland, OH 44026 USA

**Telephone** 1-216-402-4366

**E-mail** Medical

**Emergency phone number** Chemtrec 1-800-228-5635  
Chemtrec Int'l 1-800-424-9300  
+1 703-527-3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 4  
Acute toxicity, inhalation Category 2  
Skin corrosion/irritation Category 1  
Serious eye damage/eye irritation Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 1  
Hazardous to the aquatic environment, long-term hazard Category 1

**OSHA defined hazards** Combustible dust

**Label elements**



**Signal word** Danger

**Hazard statement** Harmful if swallowed. Causes severe skin burns and eye damage. Fatal if inhaled. Very toxic to aquatic life with long lasting effects. May form combustible dust concentrations in air.

**Precautionary statement**

**Prevention** Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Do not breathe dust or mist.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

|  |                 |
|--|-----------------|
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.     |
| <b>Supplemental information</b>                  | Not applicable. |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name  | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| _Urea  |                          | 57-13-6    | 50 - < 60 |
| _Alkyl dimethyl benzyl ammonium chloride (C12-18)      |                          | 68391-01-5 | 20 - < 30 |
| _Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18) |                          | 68956-79-6 | 20 - < 30 |
| Water  |                          | 7732-18-5  | 1 - < 3   |
| _Amines, C12-18-alkyldimethyl                          |                          | 68391-04-8 | 1 - < 3   |

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. |
| <b>Skin contact</b>   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.   |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.  |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.  |
| <b>Unsuitable extinguishing media</b>                                | None known.  |
| <b>Specific hazards arising from the chemical</b>                    | Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.  |
| <b>Specific methods</b>  | Cool containers exposed to flames with water until well after the fire is out.   |
| <b>General fire hazards</b>  | May form combustible dust concentrations in air.   |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. Use only non-sparking tools. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. |
|--|--|

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Collect spillage. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Large Spills: Wet down with water and dike for later disposal. Following product recovery, flush area with water.

**Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage**

**Precautions for safe handling**

Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. Store locked up. Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Store in original tightly closed container. Store in a well-ventilated place. Guard against dust accumulation of this material. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**US. Workplace Environmental Exposure Level (WEEL) Guides**

| Components          | Type | Value    | Form               |
|---------------------|------|----------|--------------------|
| _Urea (CAS 57-13-6) | TWA  | 10 mg/m3 | Total particulate. |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing. Wear protective gloves.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

**Appearance**

**Physical state**

Solid.

|   |  |
|---|--|
| <b>Form</b>   | Powder.<br>Class II Dust for National Electric Code (NFPA 70)<br>Pmax = 7 +/- 10%bar<br>Kst = 118 +/- 12% bar m/s<br>Minimum Ignition Energy (MIE) = > 1000 mJ<br>Minimum Explosible Concentration (MEC) = 60 - 70 g/m3<br>Minimum Autoignition Temperature (MAIT Cloud) = 440 C<br>Limiting Oxygen Concentration (LOC) = 14.5 +/- 1 vol. %<br>Mean particle size = 127 micrometer |
| <b>Color</b>  | White.   |
| <b>Odor</b>   | Not available.   |
| <b>Odor threshold</b>                               | Not available.   |
| <b>pH</b>   | 7.5 (10% aqueous solution)   |
| <b>Melting point/freezing point</b>                 | Not available.   |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup   |
| <b>Evaporation rate</b>                             | Estimated slower than ethyl ether  |
| <b>Flammability (solid, gas)</b>                    | Not available.   |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.   |
| <b>Flammability limit - upper (%)</b>               | Not available.   |
| <b>Explosive limit - lower (%)</b>                  | Not available.   |
| <b>Explosive limit - upper (%)</b>                  | Not available.   |
| <b>Vapor pressure</b>                               | Not determined or unknown  |
| <b>Vapor density</b>                                | Estimated heavier than air   |
| <b>Relative density</b>                             | Not available.   |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Not available.   |
| <b>Auto-ignition temperature</b>                    | Not available.   |
| <b>Decomposition temperature</b>                    | Not available.   |
| <b>Viscosity</b>                                    | Not available.   |
| <b>Other information</b>                            |  |
| <b>Bulk density</b>                                 | 37.6 lb/ft³  |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.   |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.   |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.          |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Anionic surfactants  |
| <b>Hazardous decomposition products</b>   | Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Not likely, due to the form of the product.         |
| <b>Skin contact</b> | Causes severe skin burns.                           |
| <b>Eye contact</b>  | Causes serious eye damage.                          |
| <b>Ingestion</b>    | Harmful if swallowed. Causes digestive tract burns. |

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage.

**Information on toxicological effects**

**Acute toxicity** Harmful if swallowed.

| Product                                   | Species | Test Results      |
|---|---------|-------------------|
| SpaKleen Whirlpool Spa Bath Flush Cleaner |         |                   |
| <b>Acute</b>                              |         |                   |
| <b>Dermal</b>                             |         |                   |
| LD50                                      | Rabbit  | > 2000 mg/kg      |
| <b>Inhalation</b>                         |         |                   |
| LC50                                      |         | 0.054 - 0.51 mg/l |
| <b>Oral</b>                               |         |                   |
| LD50                                      | Rat     | > 300 mg/kg       |

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not applicable.

**Specific target organ toxicity - repeated exposure** Not applicable.

**Aspiration hazard** Not applicable.

**12. Ecological information**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Product                                   | Species | Test Results |                               |
|---|---------|--------------|-------------------------------|
| SpaKleen Whirlpool Spa Bath Flush Cleaner |         |              |                               |
| <b>Aquatic</b>                            |         |              |                               |
| <i>Acute</i>                              |         |              |                               |
| Algae                                     | EC50    | Algae        | 0.063 mg/l, 96 hours          |
| Crustacea                                 | LC50    | Daphnia      | 0.0058 - 0.016 mg/l, 48 hours |
| Fish                                      | LC50    | Fish         | 0.86 ppm, 96 hours            |

**Persistence and degradability** Readily biodegradable.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

\_Urea -2.11

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Dispose of contents/container in accordance with local/regional/national/international regulations.  |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.       |

### 14. Transport information

#### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1759  |
| <b>UN proper shipping name</b>      | Corrosive solids, N.O.S. (Quaternary ammonium chloride) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | II  |
| <b>Special precautions for user</b> | Not available.  |

#### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1759  |
| <b>UN proper shipping name</b>      | Corrosive solids, N.O.S. (Quaternary ammonium chloride) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        | Yes   |
| <b>Special precautions for user</b> | Not available.  |

#### IMDG

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1759  |
| <b>UN proper shipping name</b>      | Corrosive solids, N.O.S. (Quaternary ammonium chloride), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>EmS</b>                          | Not available.  |
| <b>Special precautions for user</b> | Not available.  |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

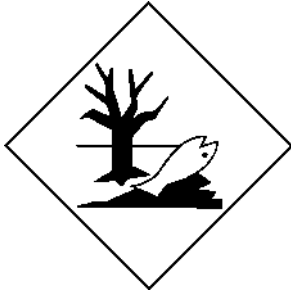
#### DOT



IATA; IMDG



Marine pollutant



## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Combustible dust  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### International Inventories

| Country(s) or region | Inventory name                                     | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS) | Yes                    |
| Canada               | Domestic Substances List (DSL)                     | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                | No                     |

| Country(s) or region        | Inventory name  | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC)        | Yes                    |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)          | Yes                    |
| New Zealand                 | New Zealand Inventory (NZIoC)                                     | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                     | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                             |  |
|-----------------------------|--|
| <b>Issue date</b>           | 04-07-2015   |
| <b>Revision date</b>        | 12-22-2021   |
| <b>Version #</b>            | 04   |
| <b>HMIS® ratings</b>        | Health: 3<br>Flammability: 1<br>Physical hazard: 0   |
| <b>NFPA ratings</b>         | Health: 3<br>Flammability: 1<br>Instability: 0   |
| <b>Disclaimer</b>           | Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions. |
| <b>Revision information</b> | Hazard(s) identification: Hazard statement<br>Hazard(s) identification: Prevention<br>Hazard(s) identification: Response<br>Hazard(s) identification: GHS Symbols<br>Exposure controls/personal protection: Respiratory protection<br>Toxicological Information: Toxicological Data<br>Toxicological information: Acute toxicity<br>Toxicological information: Respiratory sensitization<br>Toxicological information: Ingestion<br>Transport Information: Material Transportation Information<br>Regulatory Information: United States<br>HazReg Data: International Inventories<br>GHS: Classification   |