



# SAFETY DATA SHEET

## BLISS POOL SPA & HOT TUB NON-CHLORINE SHOCK

Version 1.0

Revision Date: 07/21/2025

Print Date: 07/21/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Product Name** : Bliss Pool Spa and Hot Tub Non-chlorine Shock

#### Recommended use of chemical and restrictions on use

**Recommended Use** : Hot tub/spa oxidiser.

**Restrictions** : Do not mix with other chemicals

#### Details of the supplier of the safety data sheet

**Supplier** : Bliss Water Care, LLC  
1309 Coffeen Avenue

Sheridan, WY, 82801

**Telephone** : (844) 404-0909

**Email** : sds@blisswatercare.com

#### Emergency telephone number:

**Emergency phone** : CHEMTREC: 1-800-424-9300

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Acute toxicity (oral)** : Category 5

**Skin corrosion/irritation** : Category 1b

**Serious eye damage/ eye irritation :** Category 1  
**Respiratory tract irritation :** Category 3

**GHS label elements**



**Hazard pictograms :**

**Signal word :** Danger

**Hazard statements :**  
 H303 May be harmful if swallowed.  
 H314 Causes severe skin burns and eye damage  
 H318 Causes serious eye damage  
 H335 May cause respiratory irritation

**Precautionary statements**

**Prevention :**  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands thoroughly after handling  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response :**  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : P310 Immediately call a POISON CENTER/doctor.  
P312 Call a POISON CENTER/doctor/if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
**Disposal** : P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC)**

none known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance/Mixture** : Mixture**Components**

| Chemical name / Synonyms | CAS number | %        |
|--------------------------|------------|----------|
| Potassium Monopersulfate | 10058-23-8 | 42-48    |
| Potassium Sulfate        | 7778-80-5  | 24-28    |
| Potassium Bisulfate      | 7646-93-7  | 19-22    |
| Magnesium Sulfate        | 7487-88-9  | Approx.2 |

**Ingredient notes** : The exact percentage/concentration is withheld as a trade secret in accordance with 29 CFR 1910.1200.

**SECTION 4. FIRST AID MEASURES****Description of first aid measures****General advice** : Call a poison control center or doctor for

---

|  |   |  |
|--|---|--|
|  |   | treatment advice. For 24 hour emergency medical assistance, call Chemtrec at 1-800-424-9300. Keep product label or container nearby when seeking help.   |
| <b>If inhaled</b>  | : | Move person to fresh air. If not breathing, call 911 and give artificial respiration.  |
| <b>Skin contact</b>  | : | Remove contaminated clothing. Rinse skin with water for 15-20 minutes. Call a poison control center or doctor if irritation persists.  |
| <b>Eye contact</b>   | : | Hold eye(s) open and rinse gently with water for 15-20 minutes. If present, remove contact lenses after 5 minutes, then continue rinsing. Call a poison control center or doctor if irritation persists. |
| <b>If swallowed</b>  | : | Call a poison control center or doctor immediately for advice. If able, have person sip a glass of water. Do not induce vomiting unless told to. Do not give anything by mouth to an unconscious person. |
| <b>Most important symptoms and effects, both acute and delayed</b>                                     | : | No data available.   |
| <b>Indication of any immediate medical attention and special treatment needed (note to physicians)</b> | : | Treat symptomatically.   |

## SECTION 5. FIRE FIGHTING MEASURES

|                                       |   |  |
|---------------------------------------|---|--|
| <b>Suitable extinguishing media</b>   | : | Water spray, fog or mist. Choose extinguishing media appropriate to local circumstances and the surrounding environment. |
| <b>Unsuitable extinguishing media</b> | : | Do not use carbon dioxide. Do not use water  |

---

---

|   |  |
|---|--|
|   | jet as this will spread the fire.  |
| <b>Specific hazards during firefighting :</b><br><br>self-contained | <p>Will release oxygen when heated, intensifying fire. Acidic mist may form. Use breathing apparatus. Avoid inhaling fumes in the event of fire or explosion. May cause sensitization in some individuals. Severe corrosive hazard. Water used for extinguishing, after contact with the product, may be corrosive. Development of very toxic gases may occur from thermal decomposition or combustion of hazardous combustion products in the event of a fire. Hazardous combustion products: Oxygen, Sulfur dioxide, Sulfur anhydride.</p> |
| <b>Protective equipment and precautions for firefighters</b>        | :<br><br>Wear self-contained breathing apparatus. MSHA/NIOSH approved (or equivalent) and full protective gear.  |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | :<br><br>Avoid contact with eyes and skin. Do not breathe dust. Wear appropriate personal protective equipment (PPE) as required, including gloves, safety goggles and, if necessary, a dust mask. Stop source of spill as soon as possible and notify suitable personnel. Ensure adequate ventilation in the area and keep unprotected personnel away from the spill area. For personal protection section 8. |
| <b>Methods and materials for containment and cleaning up</b>               | :<br><br>Wear protective clothing as described in Section 8. Sweep up and shovel into suitable container(s) for disposal. Provide adequate ventilation. Avoid creating dust. Flush contaminated area with plenty of water. Wash  |

---

---

contaminated surface thoroughly. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

**Environmental precautions** : Do not discharge into soil, drains, on the ground or water courses. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. If released into rivers, lakes or drains, inform respective authorities.

## SECTION 7. HANDLING AND STORAGE

**Advice on safe handling** : Keep away from heat. Take precautions to avoid mixing with combustibles. Do not ingest or swallow. Do not get in contact with skin, eyes and clothing. Provide adequate ventilation. Avoid breathing dust/vapors. Wear the appropriate personal protective equipment (PPE). When using the product, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling and storage.

**Conditions for safe storage** : Store in a cool, dry, well ventilated place, out of direct sunlight. Keep the container tightly closed. Store away from any sources of ignition, other chemicals or combustible materials. Store away from incompatible materials (see section 10 of the SDS).

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits** : This product, as supplied, does not contain any hazardous materials with occupational exposure limits.

**Engineering controls** : Adequate ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use local exhaust

ventilation or other engineering controls to keep airborne exposures below recommended exposure limit. Eye wash stations and safety showers should be provided in the work area when handling this product.

**Personal protective equipment**

|                                 |   |   |
|---------------------------------|---|---|
| <b>Eye/face protection</b>      | : | Wear safety goggles or glasses with side shields.   |
| <b>Skin and body protection</b> | : | Wear protective clothing and chemical resistant gloves.   |
| <b>Respiratory protection</b>   | : | When dusts are generated, if exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Follow current local regulations. |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |   |                                |
|---|---|--------------------------------|
| <b>Physical state</b>                         | : | Powder solid                   |
| <b>Appearance</b>                             | : | Granules                       |
| <b>Color</b>                                  | : | White                          |
| <b>Odor</b>                                   | : | No data available              |
| <b>Odor threshold</b>                         | : | No data available              |
| <b>pH</b>                                     | : | 2.0 - 2.4 (1% solution, 25 °C) |
| <b>Melting point/freezing point</b>           | : | No data available              |
| <b>Initial boiling point or boiling range</b> | : | No data available              |
| <b>Flammability (solid, gas)</b>              | : | No data available              |
| <b>Upper flammability limit</b>               | : | No data available              |
| <b>Lower flammability limit</b>               | : | No data available              |
| <b>Upper explosion limit</b>                  | : | No data available              |
| <b>Lower explosion limit</b>                  | : | No data available              |
| <b>Flash point</b>                            | : | No data available              |
| <b>Evaporation rate</b>                       | : | No data available              |
| <b>Auto-ignition temperature</b>              | : | No data available              |
| <b>Decomposition temperature</b>              | : | No data available              |
| <b>Kinematic viscosity</b>                    | : | No data available              |

---

|  |   |                   |
|--|---|-------------------|
| <b>Dynamic viscosity</b>                           | : | No data available |
| <b>Solubility</b>                                  | : | 256 g/l (20 °C)   |
| <b>Specific gravity</b>                            | : | No data available |
| <b>Partition coefficient<br/>(n-octanol/water)</b> | : | No data available |
| <b>Vapor pressure</b>                              | : | No data available |
| <b>Vapor density</b>                               | : | No data available |
| <b>Relative density</b>                            | : | 1200 - 1400 g/l   |
| <b>Explosive properties</b>                        | : | No data available |
| <b>Oxidizing properties</b>                        | : | No data available |

## SECTION 10. STABILITY AND REACTIVITY

|   |   |  |
|---|---|--|
| <b>Reactivity</b>                         | : | No data available.   |
| <b>Chemical stability</b>                 | : | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions</b> | : | No data available.   |
| <b>Conditions to avoid</b>                | : | Dust formation. Incompatible materials. Prolonged exposure to air or water. Heat, flames and sparks. Direct sunlight and extreme temperatures. |
| <b>Incompatible materials</b>             | : | Reducing agents. Strong bases. Heavy metallic salts.   |
| <b>Hazardous decomposition products</b>   | : | Oxygen<br>Sulfur dioxide<br>Sulfur anhydride   |

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Eyes, Skin, Inhalation, Ingestion.

### Numerical measures of acute toxicity – component information



| Chemical Name (CAS)             | Oral LD50          | Dermal LD50 | Inhalation LC50 |
|---------------------------------|--------------------|-------------|-----------------|
| Potassium bisulfate (7646-93-7) | = 2340 mg/kg (Rat) | -           | -               |
| Potassium sulfate (7778-80-5)   | = 6600 mg/kg (Rat) | -           | -               |

### **Information on toxicological effects**

**Symptoms** : No data available.

### **Delayed and immediate effects and also chronic effects from short- and long-term exposure**

**Skin corrosion/irritation** : Causes serious skin burns and eye damage.  
**Serious eye damage/eye irritation** : Causes serious eye damage.  
**Sensitization** : No data available.  
**Germ cell mutagenicity** : No data available.  
**Carcinogenicity** : No data available.  
**Reproductive toxicity** : No data available.  
**STOT - single exposure** : May cause respiratory irritation.  
**STOT - repeated exposure** : No data available.  
**Chronic toxicity** : No data available.  
**Aspiration hazard** : No data available.  
**Interactive effects** : No data available.  
**Data sources and methodology** : No alternative data or estimation methods used. All data provided is based on available primary sources for Potassium bisulfate (7646-93-7) and Potassium sulfate (7778-80-5).

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity: Toxicity to fish and toxicity to daphnia and other aquatic invertebrates**

| Chemical Name (CAS)             | Fish                 | Daphnia              | Algae |
|---------------------------------|----------------------|----------------------|-------|
| Potassium bisulfate (7646-93-7) | LC50, 96h, 3500 mg/l | EC50, 48h, 1310 mg/l | -     |

---

| Chemical Name (CAS)           | Fish                | Daphnia | Algae |
|-------------------------------|---------------------|---------|-------|
| Potassium sulfate (7778-80-5) | LC50, 96h, 680 mg/l | -       | -     |

**Persistence and degradability** : No data available.

**Bioaccumulative potential** : No data available.

**Results of PBT and vPvB assessment** : No data available.

**Mobility in soil** : No data available.

**Other adverse effects** : No data available.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Waste from residue** : Do not discharge into any sewer, on the ground, soil or water courses. Should not be released into the environment. Dispose of in accordance with local, state and federal regulations.

**Contaminated packaging** : Empty containers may retain product residue. Do not reuse or refill containers. Refer to all local, state and federal regulations prior to disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**RCRA status** : This product, as supplied, is not classified as a hazardous waste under the U.S. Resource Conservation and Recovery Act (RCRA), 40 CFR Part 261.

### SECTION 14. TRANSPORT INFORMATION

---

**U.S. DOT (49 CFR)**

**UN number** : 3260  
**UN proper shipping name** : Corrosive solid, acidic, inorganic,  
n.o.s. (Potassium peroxymonosulfate,  
Potassium bisulfate)  
**Transport hazard class(es)** : 8  
**Packing group** : II  
**Environmental hazards** : No  
**(Marine pollutant)**

**IMDG**

**UN number** : 3260  
**UN proper shipping name** : Corrosive solid, acidic, inorganic,  
n.o.s. (Potassium peroxymonosulfate,  
Potassium bisulfate)  
**Transport hazard class(es)** : 8  
**Packing group** : II  
**Environmental hazards** : No  
**(Marine pollutant)**

**IATA**

**UN number** : 3260  
**UN proper shipping name** : Corrosive solid, acidic, inorganic,  
n.o.s. (Potassium peroxymonosulfate,  
Potassium bisulfate)  
**Transport hazard class(es)** : 8  
**Packing group** : II  
**Environmental hazards** : No  
**(Marine pollutant)**

**Special precautions for user** : No data available.

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

**SECTION 15. REGULATORY INFORMATION****United States Federal Regulations**

---

|                              |   |   |
|------------------------------|---|---|
| <b>Clean Air Act (CAA)</b>   | : | This product, as supplied, is not listed as a Hazardous Air Pollutant (HAP).  |
| <b>Clean Water Act (CWA)</b> | : | Not listed as a hazardous substance.  |
| <b>CERCLA</b>                | : | This product, as supplied, is not listed as a hazardous substance under the Comprehensive Environmental Response, Compensation and Liability Act. |
| <b>TSCA</b>                  | : | Listed / Complies.  |

**SARA Title III (EPCRA)**

|                                |   |   |
|--------------------------------|---|---|
| <b>Section 302/304</b>         | : | Not listed as an extremely hazardous substance.   |
| <b>Section 311/312 hazards</b> | : | Acute health hazard - Yes<br>Chronic health hazard - No<br>Fire hazard - No<br>Sudden release of pressure hazard - No<br>Reactive hazard - No |
| <b>Section 313</b>             | : | This product does not contain chemicals subject to SARA 313 reporting.  |

**United States State Regulations**

|                                  |   |   |
|----------------------------------|---|---|
| <b>California Proposition 65</b> | : | This product does not contain any substances known to the State of California to cause cancer, birth defects, or other reproductive harm. |
|----------------------------------|---|---|

**U.S. States Right-to-Know**

| Components               | CAS number | New Jersey Right To Know List | Pennsylvania Right To Know List |
|--------------------------|------------|-------------------------------|---------------------------------|
| Potassium monopersulfate | 10058-23-8 | X                             | X                               |

|                     |           |   |   |
|---------------------|-----------|---|---|
| Potassium Sulfate   | 7778-80-5 | X | X |
| Potassium Bisulfate | 7646-93-7 | X | - |
| Magnesium Sulfate   | 7487-88-9 | X | X |

Note : X: Listed, -: Not listed

**U.S. EPA label information** : EPA pesticides registration number : Does not Contain any substances regulated as pesticides.

## SECTION 16. OTHER INFORMATION

### **Abbreviations and acronyms**

CAS: Chemical Abstracts Service, CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act, CFR: Code of Federal Regulations, EC50: Effective Concentration 50%, EPA: Environmental Protection Agency, EPCRA: Emergency Planning and Community Right-to-Know Act, GHS: Globally Harmonized System of Classification and Labelling of Chemicals, IARC: International Agency for Research on Cancer, IATA: International Air Transportation Association, IMDG: International Maritime Dangerous Goods, LC50: Lethal Concentration 50%, LD50: Lethal Dose 50%, MSHA: Mine Safety and Health Administration, NIOSH: National Institute for Occupational Safety and Health, NTP: National Toxicology Program, OECD: Organisation for Economic Co-operation and Development, OSHA: Occupational Safety and Health Administration, SARA: Superfund Amendments and Reauthorization Act, STOT: Specific Target Organ Toxicity, TSCA: Toxic Substances Control Act, U.S.: United States, UN: United Nations.

### **References**

Bliss Water Care Internal data including own and sponsored test results

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

eCFR – Code of Federal Regulations, website: <https://www.ecfr.gov/>

eChemPortal – The Global Portal to Information on Chemical Substances by OECD, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

ECHA – European Chemicals Agency, website: <https://echa.europa.eu/>

ERG – Emergency Response Guidebook by U.S. Department of Transportation, website:  
<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website:  
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

HSDB – Hazardous Substances Data Bank, website:  
<https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC – International Agency for Research on Cancer, website: <http://www.iarc.fr/>

IATA – International Air Transport Association, website: <https://www.iata.org/>

IMDG – International Maritime Dangerous Goods, website: <https://www.imo.org/>

IPCS – The International Chemical Safety Cards (ICSC), website:  
<http://www.ilo.org/dyn/icsc/showcard.home>

NFPA - National Fire Protection Association, website: [nfpa.org/en](http://nfpa.org/en)

NTP – National Toxicology Programme, website: <https://ntp.niehs.nih.gov/>

OEHHA – California Proposition 65, website: <https://oehha.ca.gov/proposition-65>

OSHA – Occupational Safety and Health Administration, website: <https://www.osha.gov/>

Sigma-Aldrich, website: <https://www.sigmaaldrich.com/>

U.S. EPA – United States Environmental Protection Agency, website: <https://www.epa.gov/>

NFPA - National Fire Protection Association, website: [nfpa.org/en](http://nfpa.org/en)

Prepared by Bliss Water Care Regulatory Team

Revision date: 07/21/2025

Date format: mm/dd/yyyy

The information presented in this Safety Data Sheet is provided in good faith and is believed to be accurate as of the date of issue. It is intended solely to assist in the safe handling, use, processing, storage, transportation and disposal of the product under normal conditions

and in accordance with applicable U.S. federal, state and local regulations. This document is not a warranty or guarantee of product properties or performance. Users are responsible for evaluating the suitability of this information for their specific purposes and for ensuring compliance with all applicable laws.

**End of safety data sheet.**