



SAFETY DATA SHEET

BLISS POOL SPA & HOT TUB PH DOWN

Version 1.0

Revision Date: 07/21/2025

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name : Bliss Pool Spa and Hot Tub pH Down

Recommended use of chemical and restrictions on use

Recommended Use : Lowers pH in pool, spa and hot tub water

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)

Serious Eye Damage/ Eye Irritation : Category 1

Acute Oral Toxicity : Category 5

GHS label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H318 Causes serious eye damage H303 May be harmful if swallowed
Precautionary statements		
Prevention	:	P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response	:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor
Storage	:	P403 Store in a well-ventilated place
Disposal	:	P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

none known.

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

Chemical name / Synonyms	CAS number	%
Sodium hydrogen sulfate / Sodium bisulfate	7681-38-1	<=100

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.
If inhaled	:	Move person to fresh air. If not breathing, call 911 and give artificial respiration.
Skin contact	:	Remove contaminated clothing. Rinse skin with water for 15-20 minutes. Call a poison control center or doctor if irritation persists.
Eye contact	:	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.
If swallowed	:	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.
Most important symptoms and effects, both acute and delayed	:	Causes severe eye damage.
Indication of any immediate	:	Treat symptomatically.

medical attention and special treatment needed (note to physicians)

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, dry chemical, carbon dioxide (CO ₂), or alcohol-resistant foam. Choose extinguishing media appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	No information available.
Specific hazards during firefighting	:	The product causes burns of eyes and skin. Development of toxic gases may occur from thermal decomposition or combustion of hazardous combustion products. In the event of a fire do not breathe fumes. Hazardous combustion products: Sulfur Oxides.
Protective equipment and precautions for firefighters	:	Wear self-contained breathing apparatus. MSHA/NIOSH approved (or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	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.
Methods and materials for	:	Sweep up and shovel into suitable

containment and cleaning up container(s) for disposal. Avoid creating dust. Do not release into drains, soil or into surface water. For 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 food containers or incompatible materials (see section 10 of the SDS).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Monitoring methods : BS EN 14042:2003 Title identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust.

Exposure controls

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

Eye/face protection : Wear safety goggles or glasses with side shields.

Skin and body protection : Wear protective clothing and gloves.

Respiratory protection : 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
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Physical state	:	Powder solid
Appearance	:	Granules
Color	:	Off-white
Odor	:	Pungent
Odor threshold	:	No data available
pH	:	< 1 (5% aq. sol)
Melting point/freezing point	:	177 - 180 °C / 350.6 - 356 °F
Initial boiling point or boiling range	:	No data available

Flammability (solid, gas)	:	No data available
Upper flammability limit	:	No data available
Lower flammability limit	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Flash point	:	No data available
Evaporation rate	:	Not applicable - solid
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Kinematic viscosity	:	Not applicable - solid
Dynamic viscosity	:	Not applicable - solid
Solubility	:	Soluble
Specific gravity	:	2.100
Partition coefficient (n-octanol/water)	:	No data available
Vapor pressure	:	No data available
Vapor density	:	Not applicable - solid
Relative density	:	2.44. Temperature: 20°C.
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Molecular Weight	:	120.06
Molecular Formula	:	H Na O4 S

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Moisture sensitive.
Chemical stability	:	Stable under recommended storage conditions. Hygroscopic.
Possibility of hazardous reactions	:	None known under conditions of normal use.
Conditions to avoid	:	Dust formation. Incompatible materials. Prolonged exposure to air or water. Direct sunlight and extreme temperatures.
Incompatible materials	:	Oxidizing agents. Ammonia. Chlorine bleach. Acids. Bases.

Hazardous decomposition products : Sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eyes : Causes serious eye damage.
Skin : Prolonged contact may cause redness and irritation.
Ingestion : Harmful if swallowed.
Inhalation : May cause irritation.

Numerical measures of acute toxicity – component information

Chemical Name (CAS)	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydrogen sulfate (7681-38-1)	= 2490 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-

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 : Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation : Category 1
Sensitization : Based on available data, the classification criteria are not met.
Germ cell mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Sodium hydrogen sulfate (7681-38-1) is not listed as a carcinogen by NTP, IARC, or OSHA.
Reproductive toxicity : Based on available data, the classification criteria are not met.
STOT - single exposure : Based on available data, the classification criteria are not met.
STOT - repeated exposure : Based on available data, the classification criteria are not met.

Chronic toxicity	:	No data available.
Aspiration hazard	:	Not applicable - solid.
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 Sodium hydrogen sulfate (7681-38-1).

SECTION 12. ECOLOGICAL INFORMATION

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

Chemical Name (CAS)	Microtox (Pseudomonas putida)	Daphnia magna (water flea)
Sodium hydrogen sulfate (7681-38-1)	EC10, 16h, >1000 mg/L	EC50, 48h, 190 mg/L

Persistence and degradability	:	Soluble in water; persistence is unlikely, based on information available. Degradability is not relevant for inorganic substances.
Bioaccumulative potential	:	Unlikely.
Results of PBT and vPvB assessment	:	This substance is not classified as persistent, bioaccumulative, or toxic (PBT), nor as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.
Mobility in soil	:	Likely to be mobile in soil.
Other adverse effects	:	This substance does not contain any known or suspected endocrine disruptors, persistent organic pollutants or ozone depletion potential substances.

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.

SECTION 14. TRANSPORT INFORMATION

U.S. DOT (49 CFR)	:	Not regulated as a hazardous material under DOT regulations.
UN number	:	Not applicable.
UN proper shipping name	:	Not applicable.
Transport hazard class(es)	:	Not applicable.
Packing group	:	Not applicable.
Environmental hazards (Marine pollutant)	:	No.
IMDG	:	Not regulated as dangerous goods under the IMDG Code.
UN number	:	Not applicable.
UN proper shipping name	:	Not applicable.
Transport hazard class(es)	:	Not applicable.
Packing group	:	Not applicable.
Environmental hazards (Marine pollutant)	:	No.
IATA	:	Not regulated as dangerous goods under IATA regulations.
UN number	:	Not applicable.
UN proper shipping name	:	Not applicable.
Transport hazard class(es)	:	Not applicable.
Packing group	:	Not applicable.

Environmental hazards (Marine pollutant)	:	No.
Special precautions for user	:	None required.
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

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

SARA Title III (EPCRA)

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

United States State Regulations

California Proposition 65	:	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	:	Sodium hydrogen sulfate (CAS 7681-38-1) is listed on the Right-to-Know substance lists for the following states: New Jersey, Pennsylvania and Massachusetts.
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, HMIS - Hazardous Materials Identification System, 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, NFPA - National Fire Protection Association, 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

Suppliers safety data sheet, Chemadvisor - LOLI - Merck index, RTECS

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

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

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/>

Prepared by Bliss Water Care Regulatory Team

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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.