

# SAFETY DATA SHEET

Revision Date 26-Mar-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Spa Essentials Shock Oxidizer

### Other means of identification

**Product Code** 22840000

**UN/ID no.** UN3260

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

**Recommended Use** Spa Product.

**Uses advised against** Do not mix with other chemicals

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

#### **Supplier Address**

Asepsis, Inc.  
P.O. Box 1788  
Suwanee, GA 30024  
Telephone: 800-859-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Category 4                |
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |
| Respiratory sensitization         | Category 1                |
| Skin sensitization                | Category 1                |
| Reproductive toxicity             | Category 2                |

### Label elements

#### **Emergency Overview**

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes severe skin burns and eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child



**Color** white**Physical state** Solid**Odor** Odorless**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 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 or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed  
 Keep out of reach of children

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

32.6% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

| Chemical Name   | CAS No.    | Weight-% |
|---|------------|----------|
| potassium hydrogenperoxomonosulphate  | 10058-23-8 | 28 - 32* |
| potassium hydrogensulphate  | 7646-93-7  | 15 - 19* |
| sodium carbonate  | 497-19-8   | 12 - 15* |
| Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate | 12179-04-3 | 12 - 15* |
| dipotassium peroxodisulphate (Dust)   | 7727-21-1  | 1 - 3*   |
| magnesium carbonate   | 546-93-0   | 1 - 3*   |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**Description of first aid measures**

|   |  |
|---|--|
| <b>General advice</b>                     | If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.  |
| <b>Eye contact</b>                        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician.       |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.   |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.                   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately. |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.  |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water.

**Unsuitable extinguishing media**

Do not use carbon dioxide or other gas-filled fire extinguishers; they will have no effect on decomposing persulfates.

**Specific hazards arising from the chemical**

Will release oxygen when heated, intensifying a fire. Acidic mist may be present; self contained breathing apparatus should be used. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions****Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for cleaning up**

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in well-ventilated areas. Do not mix with other chemicals. Wash contaminated clothing before reuse.

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

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Avoid contact with water on concentrated material in the container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

| Chemical Name   | ACGIH TLV   | OSHA PEL   | NIOSH IDLH   |
|---|---|--|--|
| Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate<br>12179-04-3 | STEL: 6 mg/m <sup>3</sup> inhalable fraction<br>TWA: 2 mg/m <sup>3</sup> inhalable fraction | (vacated) TWA: 10 mg/m <sup>3</sup>  | TWA: 1 mg/m <sup>3</sup>   |
| dipotassium peroxodisulphate (Dust)<br>7727-21-1  | TWA: 0.1 mg/m <sup>3</sup> Persulfate   | -  | -  |
| magnesium carbonate<br>546-93-0   | -   | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust |

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls****Engineering Controls**

Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

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

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin and body protection</b>       | Wear protective gloves and protective clothing.  |
| <b>Respiratory protection</b>         | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.  |
| <b>General Hygiene Considerations</b> | When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                      |                            |                         |                          |
|--------------------------------------|----------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                | Solid                      | <b>Odor</b>             | Odorless                 |
| <b>Appearance</b>                    | dry, free flowing granules | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                         | white                      |                         |                          |
| <b>Property</b>                      | <b>Values</b>              | <b>Remarks • Method</b> |                          |
| <b>pH</b>                            | 8.4 - 8.7                  | in 1% Solution          |                          |
| <b>Melting point/freezing point</b>  | No information available   |                         |                          |
| <b>Boiling point / boiling range</b> | No information available   |                         |                          |
| <b>Flash point</b>                   | No information available   |                         |                          |
| <b>Evaporation rate</b>              | No information available   |                         |                          |
| <b>Flammability (solid, gas)</b>     | No information available   |                         |                          |
| <b>Flammability Limit in Air</b>     |                            |                         |                          |
| <b>Upper flammability limit:</b>     | No information available   |                         |                          |
| <b>Lower flammability limit:</b>     | No information available   |                         |                          |
| <b>Vapor pressure</b>                | No information available   |                         |                          |
| <b>Vapor density</b>                 | No information available   |                         |                          |
| <b>Specific Gravity</b>              | No information available   |                         |                          |
| <b>Water solubility</b>              | Soluble in water           |                         |                          |
| <b>Solubility in other solvents</b>  | No information available   |                         |                          |
| <b>Partition coefficient</b>         | No information available   |                         |                          |
| <b>Autoignition temperature</b>      | No information available   |                         |                          |
| <b>Decomposition temperature</b>     | No information available   |                         |                          |
| <b>Kinematic viscosity</b>           | No information available   |                         |                          |
| <b>Dynamic viscosity</b>             | No information available   |                         |                          |
| <b>Density</b>                       | 1.1 - 1.4                  | g/cm3                   |                          |
| <b>Bulk density</b>                  | No information available   |                         |                          |
| <b>Explosive properties</b>          | No information available   |                         |                          |
| <b>Oxidizing properties</b>          | No information available   |                         |                          |

### Other Information

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight. Protect from moisture.

**Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Avoid contact with water on concentrated material in the container.

**Hazardous Decomposition Products**

Carbon dioxide (CO<sub>2</sub>). Oxygen.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Irritating to respiratory system.             |
| <b>Eye contact</b>  | Risk of serious damage to eyes. Causes burns. |
| <b>Skin contact</b> | Irritating to skin. Causes burns.             |
| <b>Ingestion</b>    | Harmful if swallowed.                         |

| Chemical Name  | Oral LD50            | Dermal LD50              | Inhalation LC50                      |
|--|----------------------|--------------------------|--------------------------------------|
| potassium hydrogensulphate<br>7646-93-7  | = 2340 mg/kg ( Rat ) | -                        | -                                    |
| sodium carbonate<br>497-19-8   | = 4090 mg/kg ( Rat ) | -                        | = 2300 mg/m <sup>3</sup> ( Rat ) 2 h |
| Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ),<br>pentahydrate<br>12179-04-3 | = 2403 mg/kg ( Rat ) | -                        | -                                    |
| dipotassium peroxodisulphate<br>(Dust)<br>7727-21-1  | = 802 mg/kg ( Rat )  | > 10000 mg/kg ( Rabbit ) | -                                    |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

**Reproductive toxicity** This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic toxicity** Avoid repeated exposure.  
**Target Organ Effects** Eyes, Respiratory system, Skin.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

65.1494% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---------------|----------------------|------|-----------|
|               |                      |      |           |

|                              |                                |   |                                      |
|------------------------------|--------------------------------|---|--------------------------------------|
| sodium carbonate<br>497-19-8 | 242: 120 h Nitzschia mg/L EC50 | 300: 96 h Lepomis macrochirus<br>mg/L LC50 static 310 - 1220: 96 h<br>Pimephales promelas mg/L LC50<br>static | 265: 48 h Daphnia magna mg/L<br>EC50 |
|------------------------------|--------------------------------|---|--------------------------------------|

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container. Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal.

### 14. TRANSPORT INFORMATION

**Note:**

Limited quantity (LQ) exception is possible

**DOT**

|  |   |
|--|---|
| <b>UN/ID no.</b>                       | UN3260  |
| <b>Proper shipping name</b>            | Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound)                |
| <b>Hazard Class</b>                    | 8   |
| <b>Packing Group</b>                   | II  |
| <b>Description</b>                     | UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound), 8, II |
| <b>Emergency Response Guide Number</b> | 154   |

**IATA**

|                             |   |
|-----------------------------|---|
| <b>UN/ID no.</b>            | UN3260  |
| <b>Proper shipping name</b> | Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound)                |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |
| <b>Description</b>          | UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound), 8, II |

**IMDG**

|                             |   |
|-----------------------------|---|
| <b>UN/ID no.</b>            | UN3260  |
| <b>Proper shipping name</b> | Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound)                |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |
| <b>EmS-No.</b>              | F-A, S-B  |
| <b>Description</b>          | UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate compound), 8, II |
| <b>Marine pollutant</b>     | No  |

### 15. REGULATORY INFORMATION

**International Inventories**

TSCA Complies  
 DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name  | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| potassium hydrogensulphate<br>7646-93-7  | X          | -             | -            |
| Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ),<br>pentahydrate<br>12179-04-3 | -          | X             | -            |
| dipotassium peroxodisulphate<br>(Dust)<br>7727-21-1  | X          | X             | X            |
| magnesium carbonate<br>546-93-0  | X          | X             | -            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** This product does not contain any substances regulated as pesticides

**Difference between SDS and CPSC label**

This product is regulated under Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act (16 CFR Part 1500) . These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace product labels.

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**



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|             |                   |                |                    |                                    |
|-------------|-------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 3  | Flammability 0 | Instability 1      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 3* | Flammability 0 | Physical hazards 1 | Personal protection X              |

Prepared By Regulatory Affairs  
Revision Date 26-Mar-2015  
Revision Note No information available

Disclaimer

The information provided in this Material 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information 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.

**End of Safety Data Sheet**