

# **Bundle: Nature2® Spa Mineral Sanitize Mineral Buddies® Spa Hot Tub Start-Up Kit**

## **Nature2® Spa**

### **Safety Data Sheet**

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.  
Issue date: 5/10/2023 Revision date: 5/10/2023 Version: 1.0

#### **SECTION 1: Identification**

##### **1.1. Identification**

Product form : Mixture  
Trade name : Nature2® Spa  
EPA Reg. Numbers : 67712-15

##### **1.2. Recommended use and restrictions on use**

Use of the substance/mixture : Spa water sanitization and disinfection

##### **1.3. Supplier**

###### **Distributor**

Fluidra  
2882 Whiptail  
Loop # 100  
Carlsbad, CA 92010  
USA  
T (800) 822-7933  
[www.FluidraUSA.com](http://www.FluidraUSA.com)

###### **Supplier**

Carefree Stuff  
5220 4th Street, Unit 2  
Irwindale ,CA 91706  
USA

##### **1.4. Emergency telephone number**

Emergency number : (CHEMTREC US) 800-424-9300 (CHEMTREC International) 703-527-3887

#### **SECTION 2: Hazard(s) identification**

##### **2.1. Classification of the substance or mixture**

###### **GHS US classification**

Aquatic Acute 1 : Very toxic to aquatic life  
Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects

##### **2.2. GHS Label elements, including precautionary statements**

###### **GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects  
Precautionary statements (GHS US) : Avoid release to the environment.  
Collect spillage.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

##### **2.3. Other hazards which do not result in classification**

Other hazards which do not result in classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable.

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Zinc	CAS-No.: 7440-66-6	50 – 70
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	CAS-No.: 1344-28-1	20 – 40
Silver	CAS-No.: 7440-22-4	< 1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: May include, and are not limited to: oxides of carbon. Aluminum oxides. Oxides of zinc. Irritating vapors.
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#### **5.3. Special protective equipment and precautions for fire-fighters**

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

##### **6.1.1. For non-emergency personnel**

No additional information available

##### **6.1.2. For emergency responders**

No additional information available

#### **6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### **6.3. Methods and material for containment and cleaning up**

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).  
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### **6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection".

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Read label before use.  
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store away from direct sunlight or other heat sources.  
Incompatible materials : Refer to Section 10 on Incompatible Materials.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Nature2® Spa**

No additional information available

##### **Zinc (7440-66-6)**

No additional information available

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Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Silver (7440-22-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> (dust and fume)
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	0.01 mg/m <sup>3</sup>
<b>USA - IDLH - Occupational Exposure Limits</b>	
IDLH	10 mg/m <sup>3</sup> (dust)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	0.01 mg/m <sup>3</sup> (dust) 0.9 µg/m <sup>3</sup> (nanoparticles <100 nm)

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

<b>Hand protection:</b>
Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.
<b>Eye protection:</b>
Safety glasses or goggles are recommended when using product.
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Mixture of grey colored spheres and zinc shot
Color	: Gray
Odor	: None
Odor threshold	: No data available
pH	: No data available

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Melting point	: 2040 °C 3704 °F (Aluminum Oxide)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 2
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### **9.2. Other information**

No additional information available

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No dangerous reactions known under normal conditions of use.

#### **10.2. Chemical stability**

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

#### **10.4. Conditions to avoid**

Heat. Direct sunlight. Extremely high or low temperatures. Incompatible materials.

#### **10.5. Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

#### **10.6. Hazardous decomposition products**

May include, and are not limited to: oxides of carbon. Aluminum oxides. Oxides of zinc. Irritating vapors.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### **Zinc (7440-66-6)**

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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Zinc (7440-66-6)	
LC50 inhalation rat	> 5.41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
Silver (7440-22-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 5.16 mg/l/4h
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
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
NOAEL (animal/male, F0/P)	1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Zinc (7440-66-6)	
Viscosity, kinematic	> 70.087 mm <sup>2</sup> /s
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Zinc (7440-66-6)	
LC50 - Fish [1]	2.16 – 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	0.139 – 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	0.211 – 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

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Zinc (7440-66-6)	
EC50 72h - Algae [1]	0.09 – 0.125 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0.11 – 0.271 mg/l (Species: Pseudokirchneriella subcapitata [static])
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Silver (7440-22-4)	
LC50 - Fish [1]	0.00155 – 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

### 12.2. Persistence and degradability

Nature2® Spa	
Persistence and degradability	Not established.
Silver (7440-22-4)	
Not rapidly degradable	

### 12.3. Bioaccumulative potential

Nature2® Spa	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible. Recycle empty containers where allowed.

Ecology - waste materials : Avoid release to the environment.

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#### **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

**Note:** This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L. In accordance with IMDG Code 2.10.2.7; ICAO Special Instruction A197, 49CFR 171.4(c)(2)), and ADR Special Provision 375 this product is shipped as unregulated.

##### **14.1. UN number**

DOT NA No : UN3077  
UN-No. (IMDG) : 3077  
UN-No. (IATA) : 3077

##### **14.2. UN proper shipping name**

Proper Shipping Name (DOT) : Environmentally hazardous substances, solid, n.o.s. (Zinc ; Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) ; Silver)  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc ; Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) ; Silver)  
Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s. (Zinc ; Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) ; Silver)

##### **14.3. Transport hazard class(es)**

###### **DOT**

Transport hazard class(es) (DOT) : 9  
Hazard labels (DOT) : 9



###### **IMDG**

Transport hazard class(es) (IMDG) : 9  
Hazard labels (IMDG) : 9



###### **IATA**

Transport hazard class(es) (IATA) : 9  
Hazard labels (IATA) : 9



##### **14.4. Packing group**

Packing group (DOT) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III

##### **14.5. Environmental hazards**

Dangerous for the environment : Yes



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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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Marine pollutant : Yes



Other information : No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

**DOT**  
UN-No.(DOT) : UN3077

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DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. 384 - For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in §173.121(b)(1)(i), (b)(1)(ii), and (b)(1)(iv) of this subchapter, may be reassigned to Packing Group III under the following conditions: A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg: a. Metal: 11A, 11B, 11N, 21A, 21B and 21N b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2 c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2 d. Fiberboard: 11G e. Wooden: 11C, 11D and 11F (with inner liners) f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner). B54 - Open-top, sift-proof rail cars are also authorized. B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle. N91 - The use of a non specification sift-proof, non-bulk, metal can with or without lid, or a non specification sift-proof, non-bulk fiber drum, with or without lid is authorized when transporting coal tar pitch compounds by motor vehicle or rail freight. The fiber drum must be fabricated with a three ply wall, as a minimum. The coal tar pitch compound must be in a solid mass during transportation. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No Limit

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### IMDG

No data available

#### IATA

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 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.

#### FIFRA Labelling

EPA Registration Number	67712-15
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This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

FIFRA Signal Word	Caution
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FIFRA Precautionary Statement	HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
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FIFRA Human Health Hazards	In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress.
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FIFRA First Aid	Call poison control center or doctor immediately for treatment advice.
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#### 15.2. International 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

Component	State or local regulations
Zinc(7440-66-6)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )(1344-28-1)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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<b>Component</b>	<b>State or local regulations</b>
Silver(7440-22-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **SECTION 16: Other information**

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date : 05/10/2023  
Revision date : 05/10/2023  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



<b>Full text of H-phrases</b>	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1

Safety Data Sheet (SDS), USA

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

# mineral buddies®

Specifically Designed for Mineral Treated Spas

## SAFETY DATA SHEET

**Product name** **Mineral Buddies™ Shock Treatment**

**Revision date** **10-10-21**

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

### Section 1 Product and Company Identification

**Product ID:** Shock Treatment  
**Chemical Name and Synonyms:** Potassium Monopersulfate Compound  
**Chemical Formula:** Proprietary  
**Chemical Family:** Peroxygen Salt  
**Product Use:** Safe, Effective, Shock Oxidizer Treatment

**Supplier:** Oreq Corporation  
42306 Remington Ave.  
Temecula, CA 92532  
951-296-5076

**Distributor:** Carefree Stuff  
5220 4<sup>th</sup> Street, Ste 2  
Irwindale, CA 91702  
626-337-0611

**Emergency Telephone#** **CHEMTREC 800-424-9300**

### Section 2 Hazards Identification

**Product hazard category**

Acute toxicity (Oral) Category 4  
Skin corrosion Category 1B  
Serious eye damage/eye irritation Category 1

**SIGNAL WORD:**

**DANGER**

**HAZARD PICTOGRAMS:**



**Hazardous prevention:  
measures**

P260- Do not breathe dust or mist.  
P264- Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P301+330+331- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353- IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+312- IF INHALED: Remove victim to fresh air and keep comfortable for breathing.  
P305+351+338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P307+311- Immediately call a POISON CENTER or doctor/ physician.  
P362+364- Take off contaminated clothing and wash it before reuse.  
P405- Store locked up.  
P501- Dispose of contents/ container to an approved waste disposal plant.

# mineral buddies®

Specifically Designed for Mineral Treated Spas

## SAFETY DATA SHEET

**Product name** Mineral Buddies™ Shock Treatment**Revision date** 10-10-21

### Section 3 Composition / Information on Ingredients

COMPONENT	%	CAS#
Potassium Monopersulfate	32.18%	70693-62-8
Inert ingredients	67.82%	Proprietary

The exact formulation is being withheld as a trade secret.

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.12009i), all known hazards are clearly communicated within this document.

### Section 4 First Aid Measures

- General advice:** When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation:** Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.
- Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. immediately. Wash contaminated clothing before re-use.
- Eye contact:** Hold Eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed:** No applicable data available.
- Protection of first-aiders:** No applicable data available.
- Notes to physician:** No applicable data available.

### Section 5 Fire Fighting Measures

- Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media:** Carbon dioxide (CO2)

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## SAFETY DATA SHEET

**Product name** Mineral Buddies™ Shock Treatment

**Revision date** 10-10-21

### Section 5 Fire Fighting Measures (continued)

**Specific hazards:** The product itself does not burn.  
Hazardous decomposition products Oxygen, Sulphur dioxide, Sulfur trioxide

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

**Further information:** No applicable data available.

### Section 6 Accidental Release Measures

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Safeguards (Personnel):** Evacuate personnel to safe areas. Use personal protective equipment.

**Environmental precautions:** Try to prevent the material from entering drains or water courses.

**Spill Cleanup:** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

**Accidental Release Measures:** Try to prevent the material from entering drains or water courses. Dispose of in accordance with local regulations.

### Section 7 Handling and Storage

**Handling:** Use only in well-ventilated areas. Do not breathe dust. Avoid dust formation in confined areas. Avoid contact with skin and eyes. Keep away from heat and flame. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice

**Handling (Physical Aspects):** No applicable data available.

**Dust explosion class:** No applicable data available.

**Storage:** Keep in a dry, cool and well-ventilated place. Protect from contamination. Store in original container. Keep away from: Combustible material Never allow product to get in contact with water during storage. Stable under recommended storage conditions.

**Storage period:** No applicable data available.

**Storage temperature:** No applicable data available

### Section 8 Exposure Controls / Personal Protection

**Engineering controls:** Ensure adequate ventilation.

#### Personal protective equipment

**Respiratory protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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## SAFETY DATA SHEET

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### Section 8 Exposure Controls / Personal Protection (continued)

**Hand protection:** Material: Impervious gloves  
**Eye protection:** Wear safety glasses or coverall chemical splash goggles.  
**Skin and body protection:** Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots. Remove and wash contaminated clothing before re-use.  
**Protective measures:** When using do not eat or drink. Do not breathe dust.

#### Exposure Guidelines Exposure Limit Values

Potassium Monopersulfate-

Pentapotassium bis(peroxymonosulphate) bis(sulphate)  
AEL \* (DUPONT) 1 mg/m3 15 minute TWA

Dipotassium peroxodisulphate  
TLV (ACGIH) 0.1 mg/m3 TWA as persulfate

Potassium sulfate  
AEL \* (DUPONT) 10 mg/m3 8 hr. TWA

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

### Section 9 Physical and Chemical Properties

#### Appearance (Physical state, form, colour, etc.)

**Form:** Solid form, granular  
**Color:** white  
**Odor:** none  
**Odor threshold:** No applicable data available.  
**pH:** 2.1 at 30 g/l 20 °C (68 °F)  
**Melting point/freezing point:** Melting point  
Decomposes before melting.  
**Boiling point/boiling range:** Boiling point  
Not applicable  
**Flash point:** does not flash  
**Evaporation rate:** No applicable data available.  
**Flammability (solid, gas):** The product itself does not burn, but it is slightly oxidising (active oxygen content ca. 2%).  
The product is not flammable.  
**Upper explosion limit:** No applicable data available.  
**Lower explosion limit:** No applicable data available.  
**Vapor pressure:** < 0.0000017 hPa  
**Vapor density:** No applicable data available.  
**Density:** No applicable data available.



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## SAFETY DATA SHEET

**Product name** Mineral Buddies™ Shock Treatment**Revision date** 10-10-21

### Section 9 Physical and Chemical Properties (continued)

**Specific gravity (Relative density):** 2.35 at 20 °C (68 °F)  
**Bulk density:** 1,100 - 1,400 kg/m<sup>3</sup>  
**Water solubility:** 297 - 357 g/l at 22 °C (72 °F)  
**Solubility(ies):** No applicable data available.  
**Partition coefficient: n-octanol/water:** No applicable data available.  
**Ignition temperature:** no data available  
**Auto-ignition temperature:** No applicable data available.  
**Decomposition temperature:** No applicable data available.  
**Viscosity:** No applicable data available.  
**Oxidizing Substance:** The substance or mixture is not classified as oxidizing.

### Section 10 Stability and Reactivity

**Reactivity:** Stable under recommended storage conditions.  
**Stability:** Stable under normal conditions.  
**Possibility of hazardous reactions** No applicable data available.  
**Conditions to avoid:** Temperature > 50 °C (> 122 °F) Avoid extreme heat.  
**Incompatibility:** Halogenated compounds Cyanides, Heavy metal salts  
**Hazardous decomposition products:** Oxygen , Sulfur dioxide, Sulfur trioxide products

### Section 11 Toxicological Information

#### Potassium Monopersulfate

Monopersulfate compound

**Inhalation 4 h LC50:** > 5 mg/l, rat  
**Skin irritation:** Species: rabbit, Causes burns.  
**Eye irritation:** Species: rabbit, Severe eye irritation  
**Sensitisation:** Species: guinea pig, Did not cause sensitization on laboratory animals.

May cause sensitization of susceptible persons by skin contact or by inhalation of dust.

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

**Dermal LD50:** > 11,000 mg/kg, rabbit  
**Oral LD50:** 200 - 2,000 mg/kg, rat Gastrointestinal ulceration Internal bleeding  
**Repeated dose toxicity:** Inhalation, Eyes, corneal damage, Reversible  
Oral  
Stomach, Pathologic changes

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### Section 11 Toxicological Information (continued)

**Mutagenicity:** Did not cause genetic damage in cultured bacterial cells., Tests on mammalian cell cultures showed mutagenic effects., Evidence suggests this substance does not cause genetic damage in animals.

**Teratogenicity:** Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Dipotassium peroxodisulphate

**Dermal LD50:** > 10,000 mg/kg , Rabbit

**Oral LD50:** 1,130 mg/kg , Rat

**Repeated dose toxicity:** Oral Rat-

NOAEL: 131.5 mg/kg Method: OECD Test Guideline 407

No toxicologically significant effects were found.

**Carcinogenicity:** Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

**Mutagenicity:** Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Information given is based on data obtained from similar substances.

**Reproductive toxicity:** No toxicity to reproduction Animal testing showed no reproductive toxicity.

Information given is based on data obtained from similar substances.

**Teratogenicity:** Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

Tetra[carbonato(2-)]dihydroxypentamagnesium

**Oral LD50:** > 2,000 mg/kg , Rat

Information given is based on data obtained from similar substances.

**Repeated dose toxicity:** Oral, Rat

- 90 d

NOAEL: 1,531 mg/kg Method: OECD Test Guideline 408

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

**Carcinogenicity:** Not classifiable as a human carcinogen. Information given is based on data obtained from similar substances. Animal testing did not show any carcinogenic effects.

**Mutagenicity:** Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Evidence suggests this substance does not cause genetic damage in animals.

Information given is based on data obtained from similar substances.

**Reproductive toxicity:** No toxicity to reproduction Information given is based on data obtained from similar substances. Animal testing showed no reproductive toxicity.

**Teratogenicity:** Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity.

**Carcinogenicity:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

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**Product name** Mineral Buddies™ Shock Treatment

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### Section 12 Ecological Information

#### Potassium Monopersulfate

##### Aquatic Toxicity

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

<b>96 h LC50:</b>	Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l Directive 67/548/EEC, Annex V, C.1.
<b>96 h ErC50:</b>	Selenastrum capricornutum (green algae) > 1 mg/l OECD Test Guideline 201
<b>72 h NOEC:</b>	Selenastrum capricornutum (green algae) 0.5 mg/l
<b>48 h EC50:</b>	Daphnia magna (Water flea) 3.5 mg/l OECD Test Guideline 202
<b>37 d:</b>	NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l
<b>28 d:</b>	NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l

Dipotassium peroxodisulphate

<b>96 h LC50:</b>	Oncorhynchus mykiss (rainbow trout) 76.3 mg/l US EPA Test Guideline OPP 72-1 Information given is based on data obtained from similar substances.
<b>72 h EbC50:</b>	Pseudokirchneriella subcapitata (green algae) 83.7 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
<b>72 h NOEC:</b>	Pseudokirchneriella subcapitata (green algae) 39.2 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
<b>48 h EC50:</b>	Daphnia magna (Water flea) 120 mg/l US EPA Test Guideline OPP 72-2 Information given is based on data obtained from similar substances.

Tetra[carbonato(2-)]dihydroxypentamagnesium

<b>96 h LC50:</b>	Pimephales promelas (fathead minnow) 2,120 mg/l Information given is based on data obtained from similar substances.
<b>72 h EC50:</b>	Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
<b>72 h NOEC:</b>	Desmodesmus subspicatus (green algae) 100 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
<b>48 h EC50:</b>	Daphnia magna (Water flea) 140 mg/l Information given is based on data obtained from similar substances.

#### Physico-chemical

**removability:** hydrolyses

#### Environmental Fate

Dipotassium peroxodisulphate

**Biodegradability:** Readily biodegradable.

Tetra[carbonato(2-)]dihydroxypentamagnesium

**Biodegradability:** The methods for determining biodegradability are not applicable to inorganic substances.

### Section 13 Disposal Considerations

**Waste Disposal Methods:** Dispose of in accordance with local regulations.

**Contaminated Packaging:** If recycling is not practicable, dispose of in compliance with local regulations.

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## SAFETY DATA SHEET

**Product name** Mineral Buddies™ Shock Treatment

**Revision date** 10-10-21

### Section 14 Transport Information

**DOT** **UN-Number:** 3260  
**Proper shipping name:** Corrosive solid, acidic, inorganic, n.o.s.  
(Monopersulfate Compound)  
**Class:** 8  
**Packaging group:** II  
**Labeling No.:** 8

**IATA\_C** **UN number:** 3260  
**Proper shipping name:** Corrosive solid, acidic, inorganic, n.o.s.  
(Monopersulfate Compound)  
**Class:** 8  
**Packaging group:** II  
**Labeling No.:** 8

**IMDG** **UN number:** 3260  
**Proper shipping name:** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(Monopersulfate Compound)  
**Class:** 8  
**Packaging group:** II  
**Labeling No.:** 8

### Section 15 Regulatory Information

**TSCA:** On the inventory, or in compliance with the inventory  
**Other regulations:** Active Ingredient in this composition is POTASSIUMPEROXYMONOSULFATE, CAS. No. 10058-23-8, Concentration: 43-47% (Typical 45%) Active ingredient may also be described by the synonym POTASSIUM MONOPERSULFATE.

**SARA 313 Regulated Chemical(s):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**PA Right to Know Regulated Chemical(s):** Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Dipotassium peroxodisulphate

**NJ Right to Know Regulated Chemical(s):** Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Dipotassium peroxodisulphate,

**Title III hazard: Classification:** Potassium hydrogensulphate  
Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

**California Prop. 65:** Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

**mineral buddies®**

Specifically Designed for Mineral Treated Spas

**SAFETY DATA SHEET**

**Product name**                      **Mineral Buddies™ Shock Treatment**

**Revision date**                      **10-10-21**

**Section 16 Additional Information**

HMIS: Health - 3; Flammability - 0; Physical Hazard - 1

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DATE OF PREPARATION  
10-10-2021  
OREQ CORPORATION

**Product name** Mineral Buddies™ pH & Alk Up  
**Revision date** 10-10-21

**Section 1 Identification**

**Product ID:** pH Plus  
**Chemical Name:** Sodium Carbonate, Anhydrous  
**Synonyms:** Sodium carbonate; Carbonic acid, disodium salt; Disodium carbonate  
**Chemical Formula:** NA2CO3  
**CAS Number:** 497-19-8  
**Product Use:** Raises pH, Prevents Corrosion

**Supplier:** Oreq Corporation  
 42306 Remington Ave.  
 Temecula, CA 92590  
 951-296-5076  
**Distributor:** Carefree Stuff  
 5220 4<sup>th</sup> Street, Ste 2  
 Irwindale, CA 91702  
 626-337-0611

**Emergency Telephone#** Chemtrec: 1-800-424-9300

**Section 2 Hazards identification**

**OSHA Regulatory Status**  
 This material is considered hazardous by the OSHA Hazard Communication Standard (29 FR 1910.1200)

**GHS CLASSIFICATION:** Serious eye damage/eye irritation- Category 2

**GHS SIGNAL WORD:** WARNING



**HAZARD PICTOGRAMS:**  
**HAZARD STATEMENT(S):**  
 H319 – Causes serious eye irritation

**PRECAUTIONARY STATEMENT(S)- Prevention:**  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear eye protection/ face protection

**PRECAUTIONARY STATEMENT(S)- 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  
 P337 + P313 - If eye irritation persists: Get medical advice/ attention

**Hazards not otherwise classified (HNOC)**  
 No hazards not otherwise classified were identified.

**Other Information**  
 May be harmful if swallowed

**Section 3 Composition / Information on ingredients**

**Ingredients**

Chemical Name	CAS-No	Weight %
Sodium carbonate	497-19-8	100

**Formula** NA2CO3  
**Chemical Family** Alkali salt

**Product name** Mineral Buddies™ pH & Alk Up  
**Revision date** 10-10-21

**Section 4 First - aid measures**

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin contact** Wash off with warm water and soap. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

**Inhalation** Remove person to fresh air. If signs/symptoms continue, get medical attention.

**Ingestion** Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed:**  
 Causes serious eye damage / eye irritation.

**Indication of immediate medical attention and special treatment needed, if necessary:**  
 Treat symptomatically

**Section 5 Fire - fighting measures**

**Suitable extinguishing media** Use extinguishing agent suitable for type of surrounding fire.

**Specific Hazards Arising from the Chemical** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**Hazardous combustion products** Fumes of sodium oxide. Carbon oxides (COx)

**Explosion Data**

Sensitivity to Mechanical Impact Not sensitive.  
 Sensitivity to Static Discharge Not sensitive.

**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

**Section 6 Accidental release measures**

**Personal precautions** Avoid dust formation. Sweep up to prevent slipping hazard.

**Other** For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for containment** Prevent large quantities of this product from contacting vegetation or waterways. Cover with plastic sheet to prevent spreading. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

**Section 7 Handling and storage**

**Handling** Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

**Storage** Store in original container. Keep in properly labeled containers. Keep containers tightly closed.

**Incompatible products** Aluminum. Powdered aluminum. Acids

**Product name** Mineral Buddies™ pH & Alk Up  
**Revision date** 10-10-21

### Section 8 Exposure controls / personal protection

#### Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies Local nuisance dust standards apply.

#### Appropriate engineering controls

**Engineering measures** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Wear suitable protective clothing. Protective shoes or boots.  
**Hand Protection** Nitrile rubber, Neoprene gloves  
**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.  
**General information** These recommendations apply to the product as supplied

### Section 9 Physical and chemical properties

**Appearance** Granules  
**Color** White  
**Physical state** Solid  
**Odor** odorless  
**Odor Threshold** not applicable  
**pH** 11.4 (as aqueous solution)  
**Melting Point/Range** 851 °C  
**Freezing point** No information available  
**Boiling Point/Range** not applicable  
**Flash Point** Not combustible  
**Evaporation rate** Not applicable  
**Flammable (solid, gas)** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes

**Flammability Limit in Air**  
**Upper flammability limit:** No information available  
**Lower flammability limit:** No information available  
**Vapor pressure** No information available  
**Vapor density** No information available  
**Density** No information available  
**Specific gravity** 2.52  
**Water solubility** 212.5 g/L @ 20 °C  
**Solubility in other solvents** No information available  
**Partition coefficient:** Not applicable  
**Autoignition Temperature** Not combustible  
**Decomposition Temperature** 400 °C



**Product name** Mineral Buddies™ pH & Alk Up

**Revision date** 10-10-21

### Section 9 Physical and chemical properties (Continued)

Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	Non-oxidizing
Molecular Weight	105.99
Bulk density	0.86 - 1.12 g/cm <sup>3</sup> (Dense grades) 0.70 - 0.90 g/cm <sup>3</sup> (Light Grades)
Kst	0 bar m/s

### Section 10 Stability and reactivity

Reactivity	None under normal use conditions.
Chemical Stability	Stable. Decomposes by reaction with strong acid.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Aluminium. Powdered aluminum. Acids.
Hazardous Decomposition Products	Sodium oxides. Carbon oxides (COx).

### Section 11 Toxicological information

#### Product Information

LD50 Oral	2,800 mg/kg (rat)
LD50 Dermal	> 2,000 mg/kg (rabbit)
LC50 Inhalation	2.3 mg/L (rat)
Eye Contact	Irritating to eyes.
Skin Contact	Non-irritating
Sensitization	Patch test on human volunteers did not demonstrate sensitization properties.

#### Information on toxicological effects

Symptoms	No information available.
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#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity	No known effect.
Mutagenicity	No information available
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

**Product name** Mineral Buddies™ pH & Alk Up  
**Revision date** 10-10-21

**Section 12 Ecological information**

**Ecotoxicity**

Sodium carbonate (497-19-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Sodium Carbonate	96 h LC50	Bluegill sunfish	300	mg/L
Sodium Carbonate	48 h EC50	Ceriodaphnia	200-227	mg/L

**Persistence and degradability** Biodegradability does not pertain to inorganic substances. .  
**Bioaccumulation** Does not bioaccumulate.  
**Mobility** Dissociates into ions.  
**Other adverse effects** None known

**Section 13 Disposal considerations**

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.  
**Contaminated Packaging** Dispose of in accordance with local regulations.

**Section 14 Transport information**

**DOT** Not regulated  
**IDG** Not regulated  
**ICAO/IATA** Not regulated  
**IMDG/IMO** Not regulated

**Section 15 Regulatory information**

**U.S. 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** NO  
**Fire Hazard** NO  
**Sudden Release of Pressure Hazard** NO  
**Reactive Hazard** NO

**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)

**Bundle: Nature2® Spa Mineral Sanitizer Mineral Buddies® Spa Hot Tub Start-Up Kit**  
**mineral buddies®**

**SAFETY DATA SHEET**

Specifically Designed for Mineral Treated Spas

**Product name** Mineral Buddies™ pH & Alk Up  
**Revision date** 10-10-21

**Section 15 Regulatory information (Continued)**

**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 CFR355). 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**

This product does not contain any substances regulated by state right-to-know regulations

**International Inventories**

COMPONENT	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Sodium Carbonate 497-19-8 (100)	X	X	X	X	X	X	X	X

**International Regulations**

**Mexico – Grade** Moderate risk, Grade 2

**WHMIS Hazard Class** D2B Toxic materials, Eye irritation  
Class E: Corrosive to aluminum. Not corrosive to animal skin or carbon steel.

**Section 16 Other information**

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Special Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Special Protection X</b>

**NFPA/HMIS Ratings Legend** Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**DATE OF PREPARATION**

**5-15-21**

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**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

**Section 1 Identification**

**Product ID:** pH & Alk Down  
**Synonyms:** Sodium bisulfate, anhydrous.  
 Nitre cake, GBS, Sodium hydrogen sulphate  
**Product Use:** **Lowers pH, Prevents Scaling**

**Supplier:** Oreq Corporation  
 42306 Remington Ave.  
 Temecula, CA 92590  
 951-296-5076

**Distributor:** Carefree Stuff  
 5220 4<sup>th</sup> Street, Ste 2  
 Irwindale, CA 91702  
 626-337-0611

**Emergency Phone#** CHEMTREC, U.S.: 1-800-424-9300

**Section 2 Hazards identification**

**OSHA/HCS status :** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**GHS label elements  
 Hazard pictograms:**



**Signal word :** Danger  
**Hazard statements :** H318 - Causes serious eye damage.

**Precautionary statements**

**Prevention :** P280 - Wear eye or face protection.  
 P264 - Wash hands thoroughly after handling.  
**Response :** P305 + P351 + P338 + P310 - 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 physician.  
**Storage :** Not applicable.  
**Disposal :** Not applicable.  
**Hazards not otherwise Classified** : None known.

**Section 3 Composition / Information on ingredients**

United States - Mexico

Name	%	CAS number
Sodium bisulfate	>90	7681-38-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

### Section 4 First - aid measures

#### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If redness or irritation persists, get prompt medical attention.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation or discomfort persists, seek medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. If skin irritation occurs, seek medical attention.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Inhalation of dust may irritate nose, throat and/or lungs.
- Skin contact** : Prolonged exposure may cause skin irritation.
- Ingestion** : Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

#### Over-exposure signs/symptoms

- Eye contact** : **Adverse symptoms may include the following:**  
pain  
watering  
redness
- Inhalation** : **No known significant effects or critical hazards.**
- Skin contact** : **Adverse symptoms may include the following:**  
pain or irritation  
redness  
blistering may occur if repeated exposure
- Ingestion** : **Adverse symptoms may include the following:**  
stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

### Section 5 Fire - fighting measures

- Extinguishing media**  
**Suitable Extinguishing Media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable Extinguishing Media** : None known.
- Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
Sulfur oxides
- Special protective actions for fire-fighters** : No special measures are required.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

- Small Spill** : Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large Spill** : Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

### Section 7 Handling and Storage

#### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid breathing dusts. Wash thoroughly after handling.

**Advice on general Occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, Including any incompatibilities** : Material is hygroscopic and will readily absorb moisture. DO NOT store dry product where exposed to moist conditions. Keep container tightly closed.

### Section 8 Exposure controls / personal protection

#### Control parameters

**Occupational exposure limits** : None

**Mexico** : None

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Eye/face protection** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

#### Skin protection

**Hand protection** : Use gloves appropriate for work or task being performed. Recommended: Rubber gloves.

**Body protection** : Cotton-blend coveralls

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : In dusty atmospheres (>10 mg/m<sup>3</sup>), use a NIOSH-approved dust respirator.

**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

**Section 9 Physical and chemical properties**

**Appearance**

**Physical state** : Dry (Anhydrous) crystalline solid spherical shape beads.  
**Color** : Off-white.  
**Odor** : Fresh to pungent.  
**Odor Threshold** : Not available  
**pH** : <1 [Conc. (% w/w): 5%]  
**Boiling point** : Not available.  
**Flash point** : Not available.  
**Evaporation rate** : Not available.  
**Flammability (solid, gas)** : Not available.  
**Lower and upper explosive (flammable) limits** : Not available.  
**Vapor pressure** : Not available.  
**Vapor density** : Not available.  
**Relative density** : 1.28  
**Solubility** : Partially soluble in the following materials: cold water and hot water.  
**Viscosity** : Not available.  
**Volatility** : Not available.

**Section 10 Stability and reactivity**

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**Chemical stability** : The product is stable.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid** : DO NOT store dry product where exposed to moist conditions.  
**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated solutions of chlorine bleach, ammonia cleansers or similar products.  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Sodium bisulfate	LD50 Oral	Rat	2800 mg/kg	-

**Irritation/Corrosion -** There is no data available  
**Sensitization -** There is no data available  
**Carcinogenicity -** There is no data available



**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

### Section 11 Toxicological information (Continued)

Specific target organ toxicity (single exposure) - There is no data available

Specific target organ toxicity (repeated exposure)- There is no data available

Aspiration hazard- There is no data available

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Inhalation of dust may irritate nose, throat and/or lungs.

**Skin contact** : Prolonged exposure may cause skin irritation.

**Ingestion** : Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** :No known significant effects or critical hazards.

**Skin contact** :Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur if repeated exposure

**Ingestion** :Adverse symptoms may include the following  
: stomach pains

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

##### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

##### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards

#### Potential chronic health effects

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Product name** Mineral Buddies™ pH & Alk Down  
**Revision date** 10-10-21

**Section 11 Toxicological information (Continued)**

**Acute toxicity estimates**

Route	ATE value
Oral	3080.3 mg/kg

**Section 12 Ecological information**

**Toxicity** : There is no data available.

**Persistence and degradability** : There is no data available.

**Bioaccumulative potential** : There is no data available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

**Other adverse effects** : This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

**Section 13 Disposal considerations**

**Disposal Methods** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

**Section 14 Transport information**

	DOT/MEX Classification	IMDG	IATA
<b>UN number</b>	Not regulated	Not regulated	Not regulated
<b>UN proper Shipping name</b>	-	-	-
<b>Transport Hazard class</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No	No	No
<b>Additional information</b>	-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

**Section 15 Regulatory information**

**U.S. Federal regulations** : **TSCA 8 (a) CDR Exempt Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.

**Product name** Mineral Buddies™ pH & Alk Down

**Revision date** 10-10-21

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not Listed

**Clean Air Act Section 602 Class I Substances** : Not Listed

**Clean Air Act Section 602 Class II Substances** : Not Listed

**DEA List I Chemicals (Precursor Chemicals)** : Not Listed

**DEA List II Chemicals (Essential Chemicals)** : Not Listed

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ:** :Not applicable

**SARA 311/312**

**Classification** : Immediate (acute) health hazard

**Composition/information on ingredients**

Name	%	Fire Hazard	Sudden Release of Pressure	Reactive	Immediate (acute) Health hazard	Delayed (chronic) Health hazard
Sodium Bisulfate	>90	No.	No.	No.	Yes.	No.

**State regulations**

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**

No products were found.

**Mexico**

**Classification** : **Health** 1 **Flammability** 0 **Reactivity** 0

**Section 16 Other information**

**DATE OF PREPARATION**

**5-15-2021**

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**Product name** **Mineral Buddies™ Calcium Up**

**Revision date** **10-10-21**

### Section 1 Identification

**Product ID:** Calcium Up

**Chemical Name:** Calcium Chloride  
**Synonyms:** Calcium Chloride Flake  
**CAS Number:** 10043-52-4

**Product Use:** Raises Calcium, Prevents Corrosion

**Supplier:** Oreq Corporation  
42306 Remington Ave.  
Temecula, CA 92590  
951-296-5076

**Distributor:** Carefree Stuff  
5220 4<sup>th</sup> Street, Ste 2  
Irwindale, CA 91702  
626-337-0611

**Emergency Phone# –** CHEMTREC: 800-424-9300

### Section 2 Hazards identification

**GHS CLASSIFICATION:** Acute Oral Toxicity Category 4  
Serious Eye Damage/Eye Irritation Category 2

**GHS SIGNAL WORD:** **WARNING**

**HAZARD PICTOGRAMS:**



**Appearance:** White

**Physical State:** Flake

**Odor:** Odorless

**Hazard Statement(s)**

H302 Harmful if swallowed  
H316 Causes mild skin irritation  
H319 Causes serious eye irritation

**Precautionary Statement(s):**

P264: Wash ... thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P330 - Rinse mouth  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Product name** Mineral Buddies™ Calcium Up**Revision date** 10-10-21**Section 3 Composition / Information on ingredients**

Chemical Name	CAS-No	Weight %
Calcium Chloride	10043-52-4	74-100
Water	7732-18-5	0-26
Sodium Chloride	7647-14-5	< 3
Potassium Chloride	7447-40-7	< 3
Magnesium Chloride	7786-30-3	< 0.5

**Section 4 First - aid measures**

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical attention if irritation persists.

**Skin Contact:** Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Inhalation:** Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell Rinse mouth.

**Notes to Physician:** Treat symptomatically and supportively.

**Section 5 Fire - fighting measures****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None

**Specific Hazards Arising from the Chemical**

Avoid generating dust, under certain conditions may cause respiratory irritation. 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.

**Section 6 Accidental release measures****Personal Precautions:**

Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid dust formation.

**Environmental Precautions:**

Prevent large spills from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12,

**Product name** Mineral Buddies™ Calcium Up

**Revision date** 10-10-21

**Section 6 Accidental release measures (Continued)**

Ecological Information.

**Methods and Materials for Containment and Cleaning Up:**

Small and large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water. See Section 13, Disposal considerations, for additional information.

**Section 7 Handling and storage**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale. Wash clothing before reuse. Always use cool water when dissolving Calcium Chloride. Heat evolved is significant.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Store below melting point.

**Incompatible Products:** Zinc, Bromine tri-fluoride, Methyl vinyl ether

**Section 8 Exposure controls / personal protection**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Chloride 10043-52-4	ACGIH - (TLV-TWA) Guidelne for nuisance particulate (inhalable particulate): 10 mg/m3	OSHA (PEL-TWA) - Z-3 Mineral Dusts, Inert or Nuisance dusts, (respirable fraction): 5 mg/m3	-

**Engineering Measures** Provide local exhaust ventilations system. When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

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

**Eye/Face Protection** Wear safety glasses with non-flexible side shields or chemical goggles

**Skin and Body Protection** **Hands and Feet:** Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction.  
**Body:** Wear appropriate protective, impervious clothing.

**Respiratory Protection** A respirator is not indicated under normal operating conditions. Use of a NIOSH - approved respirator (N95 or greater) should be based on the presence of nuisance dusts.

**Hygiene Measures** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

**Product name** Mineral Buddies™ Calcium Up

**Revision date** 10-10-21

**Section 9 Physical and chemical properties**

**Physical State:** Flake

**Appearance:** white

**Odor:** odorless

**pH:** 8-10 100 g/l aq.sol.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** > 1600 deg C @ 760.0

**Freezing/Melting Point:** 782 deg C

**Decomposition Temperature:** Not available.

**Solubility:** 740 g/l water (20°C)

**Specific Gravity/Density:** Not available.

**Molecular Formula:** CaCl2

**Molecular Weight:** 110.99

**Section 10 Stability and reactivity**

**Chemical Stability:** Stable.

**Conditions to Avoid:** Dust generation, excess heat, exposure to moist air or water.

**Incompatibilities with Other Materials:** Zinc, Bromine tri-fluoride, Methyl vinyl ether

**Hazardous Decomposition Products:** Hydrogen chloride, calcium oxide.

**Hazardous Polymerization:** Will not occur.

**Section 11 Toxicological information**

**Information on likely routes of exposure**

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Irritating to eyes.

**Skin Contact** May cause irritation.

**Ingestion** Harmful if swallowed.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride	= 1000 mg/kg ( Rat )	= 2630 mg/kg ( Rat )	-
Potassium Chloride	= 2600 mg/kg ( Rat )	-	-
Sodium chloride	= 3 g/kg ( Rat )	> 10 g/kg ( Rabbit )	> 42 g/m3 ( Rat ) 1 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause irritation to the respiratory system.

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

**Eye damage/irritation** Irritating to eyes.

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**Product name** Mineral Buddies™ Calcium Up

**Revision date** 10-10-21

**Section 11 Toxicological information (Continued)**

**STOT - repeated exposure** No information available.  
**Chronic Toxicity** Avoid repeated exposure.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity.

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

**LD50 Oral** 979 mg/kg; Acute toxicity estimate

**LD50 Dermal** 2630 mg/kg; Acute toxicity estimate

**Section 12 Ecological information**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Calcium Chloride 10043-52-4		LC50 96 h: = 10650 mg/L static (Lepomis macrochirus)		LC50 48 h: = 2400 mg/L (Daphnia magna)
Potassium Chloride 7447-40-7	EC50 72 h: = 2500 mg/L (Desmodesmus subspicatus)	LC50 96 h: 750-1020 mg/L static (Pimephales promelas) LC50 96 h: = 1060 mg/L static (Lepomis macrochirus)		EC50 48 h: = 825 mg/L (Daphnia magna) EC50 48 h: = 83 mg/L Static (Daphnia magna)
Sodium chloride 7647-14-5		LC50 96 h: 5560 - 6080 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 12946 mg/L static (Lepomis macrochirus) LC50 96 h: 6020 - 7070 mg/L static (Pimephales promelas) LC50 96 h: = 7050 mg/L semi-static (Pimephales promelas) LC50 96 h: 6420 - 6700 mg/L static (Pimephales promelas) LC50 96 h: 4747 - 7824 mg/L flow-through (Oncorhynchus mykiss)		EC50 48 h: = 1000 mg/L (Daphnia magna) EC50 48 h: 340.7 - 469.2 mg/L Static (Daphnia magna)

**Section 13 Disposal considerations**

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Do not re-use empty containers.

**Section 14 Transport information**

**US DOT –** Not Regulated  
**TDG –** Not Regulated  
**MEX –** Not Regulated



**Product name** Mineral Buddies™ Calcium Up**Revision date** 10-10-21**Section 15 Regulatory information****International Inventories**

TSCA	Complies
DSL	Complies

**Legend**

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

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

**U.S. Federal Regulations**

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	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**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.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated by state right-to-know regulations.

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**Section 16 Other information****HMIS Rating**

Health hazard: 1  
 Flammability: 0  
 Physical Hazard 1

**NEPA Rating**

Health hazard: 1  
 Fire Hazard: 0  
 Reactivity Hazard: 1

**DATE OF PREPARATION****10-10-21**

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