

# SAFETY DATA SHEET



## 1. IDENTIFICATION

### Product identifier

**Product Name** BSI-200 Aluminum-Safe High-Foaming Chlorinated Cleaner

### Other means of identification

Chlorinated Foaming Cleaner

### Recommended Uses

General Cleaner for smoke residues, animal fats and oils and surface soils.

### Distributor Address

**Best Sanitizers, Inc.**  
PO Box 1360  
Penn Valley, CA 95946

### Emergency telephone number

**Emergency Phone Numbers** ChemTrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

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

Serious eye damage/irritation	Category 1
Skin corrosion/irritation	Category 1

**Signal word**

**Danger**

### Hazard statements

Causes severe skin burns and eye damage



**Appearance** Aqueous solution

**Physical State** Liquid

**Odor** Chlorine

### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician.  
Specific treatment (see Section 4 on SDS for more information).  
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 (hair) with water/shower. Wash contaminated clothing and shoes before reuse.  
IF INHALED: Remove victim to fresh air and keep comfortable for breathing immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

### **Hazards not otherwise classified (HNOC)**

Not Applicable

### **Other Information**

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

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

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Weight %</b>	<b>Trade Secret</b>
Water	7732-18-5	80-89	
Trade Secret 1	Proprietary	3-7	*
Sodium Hypochlorite	7681-52-9	1-5	*
Trade Secret 2	Proprietary	1-3.5	*
Trade Secret 3	Proprietary	1-3	*
Potassium Hydroxide	1310-58-3	0.5-1.5	
Sodium Hydroxide	1310-73-2	0.10-0.15	

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

## **4. FIRST AID MEASURES**

### **First aid measures**

#### **Eye Contact**

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Seek immediate medical advice/ attention.

#### **Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing and shoes before reuse. For severe burns, immediate medical attention is required.

#### **Inhalation**

Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician if necessary.

#### **Ingestion**

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

**Most Important Symptoms and Effects**

See Section 11 for symptom information

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

**Note to physicians:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Dry Chemical. Water spray (fog), Carbon dioxide (CO<sub>2</sub>), Foam.

**Unsuitable Extinguishing Media**

No Information available.

**Specific Hazards Arising from the Chemical**

Flammable. Vapors may travel to source of ignition and flash back.

**Hazardous combustion products:**

Chlorine gas released on contact with acids, or during thermal decomposition. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

**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. Cool containers with flooding quantities of water until well after fire is out. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions** Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.

**For emergency responders** Isolate area. Keep unnecessary personnel away.

**Environmental precautions**

**Environmental Precautions** See Section 12 for additional ecological information. Prevent entry into waterways, sewers, basements or confined areas.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).

**Methods for Cleaning Up** Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions/  
Incompatible materials**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Do not reuse container.

Acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m3	(vacated) Ceiling: 2 mg/m3	Ceiling: 2 mg/m3
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m3	TWA: 2 mg/m3 (vacated) Ceiling: 2 mg/m3	IDLH: 10 mg/m3 Ceiling: 2 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

**Appropriate engineering controls**

**Engineering Controls** Showers, eyewash stations, ventilation system.

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

**Eye/Face Protection** Splash proof chemical goggles and face shield.

**Skin and Body Protection** Wear protective Neoprene™ gloves. Rubber gloves. Wear suitable protective clothing. Rubber boots recommended.

**Respiratory Protection** 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.

**Hygiene Measures** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

**Formula** See Section 3

**Physical State** Liquid

**Appearance** Aqueous solution

**Color** Clear to pale yellow

**Property** **Values**

**pH** 13

**Melting/freezing point** -7°C / < 20° F

**Odor** Chlorine

**Odor Threshold** No information available

**Remarks/ Method**

+/- 1 @ 21°C

None known

<b>Boiling point / boiling range</b>	No information available.	None known
<b>Flash Point</b>	Not Flammable	N/A
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No data available	None known
<b>Lower flammability limit</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	1.09 g/cc	None known
<b>Water Solubility</b>	Soluble in water.	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient:</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

This product will gradually lose some of its oxidizing power over time. Elevated temperatures and contaminants can rapidly accelerate decomposition, possible leading to a hazardous condition.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known.

### Incompatible materials

Acids.

### Hazardous Decomposition Products

Chlorine gas released on contact with acids, or during thermal decomposition. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of vapors in high concentration may cause irritation of respiratory system. Vapors may be irritating to eyes, nose, throat, and lungs.
<b>Eye Contact</b>	Risk of serious damage to eyes. Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin Contact</b>	Corrosive. Contact causes severe skin irritation and possible burns.
<b>Ingestion</b>	Harmful if swallowed. Can burn mouth, throat, and stomach. Ingestion causes burns of the upper digestive and respiratory tracts.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret 1	= 847 mg/kg (Rat)	-	-
Trade Secret 2	= 3 g/kg (Rat)	>10 g/kg (Rabbit)	>42 g/m <sup>3</sup> (Rat) 1 h
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Sodium hydroxide 1310-73-2	-	= 1350 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 The table below lists whether each agency has listed an ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

Reproductive toxicity No Information Available

STOT single exposure No Information Available

STOT repeated exposure No Information Available

Aspiration Hazard No Information Available

**Numerical measures of toxicity –Product Information**

**Unknown Acute Toxicity** 1.9% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on Chapter 3.1 of the GHS document mg/kg.

**Oral LD50**

10767 mg/kg

**12. Ecological Data**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

7.96% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Fish	Crustacea
Sodium hypochlorite 7681-52-9	0.06-0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5-7.6: 96 h Pimephales promelas mg/L LC50 static 0.4-0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28-1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05-0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03-0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18-0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	0.033-0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50
Trade Secret 2	5560-6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 129461: 96 h Lepomis macrochirus mg/L LC50 static 6420-6700: 96 h Pimephales promelas mg/L LC50 static 6020-7070: 96 h Pimephales promelas mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 4747-7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	1000: 48 h Daphnia magna mg/L EC50 340.7-469.2: 48 h Daphnia magna mg/L EC50 Static
Potassium hydroxide 1310-58-3	80: 96 h Gambusia affinis mg/L LC50 static	-
Sodium hydroxide 1310-73-2	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-

**Persistence and Degradability**

No Information Available.

**Bioaccumulation**

Chemical Name	Partition Coefficient
Potassium hydroxide	0.65
1310-58-3	0.83

**Mobility**

Miscible in water.

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

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

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	Toxic; Corrosive
Sodium hydroxide 1310-73-2	Toxic; Corrosive

**14. TRANSPORT INFORMATION**

**DOT**

**UN/ID No.** 1760

**Proper shipping name** Corrosive liquids, n.o.s. (contains potassium hydroxide and sodium hypochlorite)

**Hazard Class** 8

**Packing Group** II

**Emergency Response Guide Number** 154

**15. REGULATORY INFORMATION**

**Chemical Inventories**

**TSCA** No information available

**DSL/NDSL** No information available

**EINECS/EIINCS** No information available

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

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

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization 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

**CWA (Clean Water Act)**

This product contains the following substances which are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA-Reportable Quantity	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lbs	-	-	X
Potassium hydroxide 1310-58-3	1000 lbs	-	-	X
Sodium hydroxide 1310-73-2	1000 lbs	-	-	X

**CERCLA**

This material, as supplied, does not contain any substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**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
Sodium hypochlorite 7681-52-9	X	X	X
Potassium hydroxide 1310-58-3	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 2	Flammability 0	Instability 0	<b>Physical and Chemical Hazards</b> Corrosive, Alkaline
<b>HMIS</b>	Health Hazard 2	Flammability 0	Physical Hazard 0	<b>Personal Protection</b> C (safety glasses; gloves; synthetic apron)

Prepared By Technical Department

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**General Disclaimer**

The information provided in this 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**