# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier**

**Product Name** **BSI-250 High-Foaming All-Purpose Alkaline Cleaner**

**Other means of identification**
All-Purpose cleaner and degreaser

**Recommended Uses**
Equipment, utensils, walls, and floors in all departments of meat, poultry and general food processing plants.

**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 chemical 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 serious skin burns and eye damage.

**Appearance** Aqueous solution **Physical State** Liquid **Odor** Mild, sweet

**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**
Toxic to aquatic life with long lasting effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight % | Trade Secret |
|---|---|---|---|
| Water | 7732-18-5 | 76-86 | |
| Ethylene glycol monobutyl ether | 111-76-2 | 3-7 | |
| Sodium metasilicate pentahydrate | 10213-79-3 | 1-3 | |
| Ethyl alcohol | 64-17-5 | <0.9 | |
| Trade Secret 1 | Proprietary | 3-7 | * |
| Trade Secret 2 | Proprietary | 2-6 | * |
| Trade Secret 3 | Proprietary | 1-4 | * |
| Ethylenediaminetetraacetic acid tetrasodium salt | 64-02-8 | 0.5-1.5 | |
| Sodium Hydroxide | 1310-73-2 | <0.1 | |

* 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. Get medical attention if irritation develops and persists.

**Inhalation** — Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately.

**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 (CO2), Foam.

**Unsuitable Extinguishing Media**

No Information available.

**Specific Hazards Arising from the Chemical**

No information available.

**Hazardous combustion products**:

Carbon monoxide.

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

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

| | |
|---|---|
| **Methods for Containment** | Prevent further leakage or spillage if safe to do so. 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 and eyes. 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.

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m3 | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m3 |
| Ethyl Alcohol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m3 | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m3 |
| Sodium Hydroxide 1310-73-2 | Ceiling: 2 mg/m3 | TWA: 2 mg/m3<br>(vacated) Ceiling: 2 mg/m3 | IDLH: 10 mg/m3<br>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 NeopreneTM gloves. Rubber gloves. Normal work clothing (long sleeved shirt and long sleeved shirt and long pants) is recommended. Apron 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, blue

**Odor** Mild sweet

**Odor Threshold** No information available

| Property | Values | Remarks/ Method |
|---|---|---|
| pH | 13 | +/- 1 @ 21˚C |
| Melting/freezing point | < -6.7˚C / < 20˚ F | None known |

| | | |
|---|---|---|
| **Boiling point / boiling range** | No information available. | None known |
| **Flash Point** | Not Flammable | N/A |
| **Evaporation rate** | No information available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limits in Air** | | |
| **Upper flammability limit** | No data available | None known |
| **Lower flammability limit** | No data available | None known |
| **Vapor pressure** | No data available | None known |
| **Vapor density** | No data available | None known |
| **Specific Gravity** | 1.04 g/cc | None known |
| **Water Solubility** | Soluble in water. | None known |
| **Solubility in other solvents** | No data available | None known |
| **Partition coefficient:** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |

## 10. STABILITY AND REACTIVITY

**Reactivity**
No data available.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Conditions to avoid**
None known.

**Incompatible materials**
Strong oxidizing agents.

**Hazardous Decomposition Products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| **Eye Contact** | Irritating to eyes. Extended eye exposure may result in corneal damage. |
| **Skin Contact** | Prolonged contact may cause irritation. |
| **Ingestion** | Harmful if swallowed. |

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | = 470 mg/kg (Rat) | = 99 mg/kg (Rabbit) | = 450 ppm (Rat) 4 h |
| Ethyl Alcohol 64-17-5 | = 7060 mg/kg (Rat) | >2 g/kg (Rabbit) | = 124.7 mg/L (rat) 4 h |
| Trade Secret 2 | = 1400 mg/kg (Rat)<br>= 1378 mg/kg (Rat) | >2 g/kg (Rabbit) | - |
| Sodium metasilicate pentahydrate 10213-79-3 | = 847 mg/kg (Rat) | - | - |
| Trade Secret 3 | - | >4640 mg/kg (Rabbit) | - |
| Ethylenediaminetetraacetic acid tetrasodium salt 64-02-8 | = 10 g/kg (Rat)<br>= 1658 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 indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ethyl alcohol 64-17-5 | A3 | - | Known | X |
| Ethylene glycol monobutyl ether 111-76-2 | A3 | Group 3 | - | - |

*ACGIH (American Conference of Government Industrial Hygienist) = A3-Animal Carcinogen*
*IARC (International Agency for Research on Cancer) = Group 3- "not classificable as human carcinogens"*
*NTP (National Toxicology Program) = Known-Known Carcinogen*
*OSHA (Occupational Safety and Health Administration of the US Department of Labor = X-Present*

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** **4.8%** of the mixture consists of ingredient(s) of unknown toxicity.

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

**ATEmix (oral LD50)** 6494 mg/kg
**ATEmix (dermal)** 14164 mg/kg
**ATEmix (inhalation-dust/mist))** 30 mg/L
**ATEmix (inhalation-vapor)** 43.5 mg/L

## 12. Ecological Data

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

10.9185% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | - | 1490: 96 h Lepomis macrochirus mg/L LC50 static<br>2950: 96 h Lepomis macrochirus mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50<br>1698-1940: 24 h Daphnia magna mg/L EC50 |
| Trade Secret 3 | - | 100: 96 h Onocorhynchus mykiss mg/L LC50 | 100:4 8 h water flea mg/L EC50 |
| Ethylene glycol monobutyl ether 111-76-2 | 1.01: 72 h Desmodesmus subspicatus mg/L EC50 | 41: 96 h Lepomis macrochirus mg/L LC50 static<br>59.8: 96 h Pimephales promelas mg/L LC50 static | 610: 24 h Daphnia magna mg/L EC50 |
| Sodium hydroxide 1310-73-2 | - | 45.4: 96 h Onocorhynchus mykiss mg/L LC50 Static | - |
| Ethyl Alcohol 64-17-5 | - | 12.0-16.0: 96 h Oncorhynchus mykiss mL/L LC50 static<br>100: 96 h Pimephales promelas mg/L LC50 static<br>13400-15100: 96 h Pimephales | 9268-14221:48 h Daphnia magna mg/L LC50<br>2: 48 h Daphnia magna mg/L EC50 |

| | | | |
|---|---|---|---|
| | | promelas mg/L LC50 flow-through | Static<br>10800: 24 h Daphnia magna mg/L EC50 |

**Persistence and Degradability**
No Information Available.

**Bioaccumulation**

| Chemical Name | Partition Coefficient |
|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | 0.81 |
| Ethyl Alcohol 64-17-5 | -0.32 |

**Mobility**

Soluble 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 |
|---|---|
| Ethyl alcohol 64-17-5 | Toxic; Ignitable |
| Sodium hydroxide 1310-73-2 | Toxic; Corrosive |

## 14. TRANSPORT INFORMATION

**DOT**

**Not Regulated by US DOT**

## 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 contains a chemical(s) which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note: (related to Glycol ethers): 1.0% de minimis concentration.

| Chemical Name | SARA 313-Threshold Values % |
|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | 1.0 |

**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 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 hydroxide1310-73-2 | 1000 lbs | - | - | X |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lbs | - | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

## US State Regulations

**California Proposition 65**

Warning! This product may contain trace amount of: Ethylene oxide 75-21-8: 1.4 dioxane 123-91-1; Nitrilotriacetic acid trisodium salt 5064-31-3; Formaldehyde 500-00-0. Ethyl alcohol is only a considered a Proposition 65 development hazard when it is ingested as an alcoholic beverage.

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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Ethylene glycol monobutyl ether<br>111-76-2 | X | X | X |
| Ethyl alcohol<br>64-17-5 | X | X | X |
| Sodium hydroxide<br>1310-73-2 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

## 16. OTHER INFORMATION

**NFPA** **Health Hazard** 1 **Flammability** 0 **Instability** 0 **Physical and Chemical Hazards** None

**HMIS** **Health Hazard** 1 **Flammability** 0 **Physical Hazard** 0 **Personal Protection** B (safety glasses; gloves)

**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**