

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 TWA: 240 mg/m ³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

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. 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	Odor	Mild sweet
Color	Clear, blue	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) = 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) = 1658 mg/kg (Rat)	-	-

Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
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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 classifiable 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 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 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 Desmodosmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 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 Onocorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400-15100: 96 h Pimephales	9268-14221:48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50

		promelas mg/L LC50 flow-through	Static 10800: 24 h Daphnia magna mg/L EC50
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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 hydroxide 1310-73-2	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 1310-73-2	1000 lbs	-	RQ 1000 lb final RQ 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; Nitrotriacetic 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 111-76-2	X	X	X
Ethyl alcohol 64-17-5	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

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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Version 6

Revision Note Annual Review

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