SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product Name **BSI-215 Degreaser**

Other means of identification
Extra Strength degreaser

Recommended Uses
Extra Strength degreaser

Distributor Address
Best Sanitizers, Inc.
PO Box 1360
Penn Valley, CA 95946
Toll Free: 888-225-3267

Emergency telephone number

Emergency Phone Numbers ChemTrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR1910.1200).
Warnings below are for exposure to large quantities of the product. Normal usage should not create hazardous conditions.

Serious eye damage/irritation	Category 2B

Signal word **Warning**

Hazard statements
Causes eye irritation.

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

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response
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.

Precautionary Statements - Storage
Not applicable.

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

Chemical Name	CAS No.	Weight %	Trade Secret
Water	7732-18-5	84-94	
Pentanedioic acid, 2-methyl-, 1,5-dimethyl ester	14035-94-0	2-7	
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8	2-7	
Trade Secret 1	Proprietary	0.5-1.0	*
Trade Secret 2	Proprietary	0.5-0.9	*
Trade Secret 3	Proprietary	0.3-0.7	*
Ethyl Alcohol	64-17-5	<0.07	

* 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. 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 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 (CO2), Foam.

Unsuitable Extinguishing Media

No Information available.

Specific Hazards Arising from the Chemical

No information available.

Hazardous combustion products:

No information available.

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 and place in container for disposal according to local/national regulations (See Section 13).
Methods for Cleaning Up	Spilled material will make surfaces slippery. 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.

Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 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 Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective NeopreneTM gloves. Rubber gloves. Normal work clothing (long sleeved shirt and long pants is 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
Color	Clear to slightly hazy.	**Odor Threshold**	No information available
Property	**Values**	**Remarks/ Method**	
pH	6.5	+/- 1 @ 21˚C	
Melting/freezing point	~0˚C / ~32˚ F	None known	

Boiling point / boiling range	No information available.	None known
Flash Point	Not Flammable	N/A
Evaporation rate	<1	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	1.008 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. Strong acids.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	None under normal use conditions.
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
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (rat) 4 h
Trade Secret 2	= 22 g/kg (Rat) = 28 g/kg (Rat)	>20 mL/kg (Rabbit) >20 g/kg (Rabbit)	-
Trade Secret 3	= 1900 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

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

Sensitization No Information Available

Germ cell mutagenicity No Information Available

Carcinogenicity	Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.
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 9% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol 64-17-5	A3	-	KNOWN	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
NTP (National Toxicology Program)
Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

12. Ecological Data

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

10.25% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Fish	Crustacea
Trade Secret 3	20-40: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 24: 96 h Oncorhynchus mykiss mg/L LC50 static 37: 96 h Lepomis macrochirus mg/L LC50 static	36:48 h Daphnia magna mg/L EC50
Trade Secret 2	5000:24 h Carassius auratus mg/L LC50	-
Ethyl Alcohol 64-17-5	12.0-16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400-15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268-14221:48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

Persistence and Degradability

No Information Available.

Bioaccumulation

Chemical Name	Partition Coefficient
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 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

CWA (Clean Water Act)
This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR122.42

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 substances regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLS) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.)

US State Regulations

California Proposition 65

Warning! This product may contain trace amounts of Acetaldehyde 75-07-0; 1,4-dioxane 123-91-1; Ethylene oxide 75-21-8; Methanol 67-56-1. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Ethyl alcohol 64-17-5	Carcinogen; Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	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 **Physical Hazard** 0 **Personal Protection** B (safety glasses; gloves)

Prepared By Technical Department

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Version 7

Revision Note Name Change

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