

SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product Name BSI-215 Non-VOC Biodegradable 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

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 Neoprene™ 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

Color

Clear to slightly hazy.

Property**Values****pH**

6.5

Odor

Mild

**Odor Threshold
Remarks/ Method**

No information available

+/- 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 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 substances regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (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.)

California Proposition 65

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	X	X	X

EPA Pesticide Registration Number	Not Applicable
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<u>NFPA</u>	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)

Revision Note

General Disclaimer

End of Safety Data Sheet