

# SAFETY DATA SHEET



## 1. IDENTIFICATION

### Product identifier

**Product Name** BSI-102 Glass Cleaner

### Other means of identification

Window Cleaner

### Recommended Uses

Windows or Glass

### 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 2
Flammable Liquids	Category 3

### Signal word

### Warning

### Hazard statements

Causes serious eye irritation  
Flammable liquid and vapor



**Appearance** Aqueous solution

**Physical State** Liquid

**Odor** Mild

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.  
Keep away from heat/sparks/open flames/hot surfaces-----No Smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.

### **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.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin (hair) with water/shower.  
In case of fire: Use CO2, dry chemical, or foam for extinction.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep Cool.

### **Precautionary Statements - Disposal**

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

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

Not Applicable

### **Other Information**

\*Causes mild skin irritation.

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

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Weight %</b>	<b>Trade Secret</b>
Water	7732-18-5	72-80	
Isopropyl alcohol	67-63-0	10-17	
Propylene glycol n-butyl ether	5131-66-8	6-11	
Trade Secret 1	Proprietary	0.5-0.9	*
Trade Secret 3	Proprietary	0.1-0.5	*
Trade Secret 2	Proprietary	0.3-0.6	*
Trade Secret 4	Proprietary	0.1-0.3	*
2-Aminoethanol	141-43-5	0.3-0.9	
Ethylenediaminetetraacetic acid tetrasodium salt	64-02-8	0.05-0.15	

\* 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. 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 (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:**

Carbon monoxide (CO); 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.

**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**

Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks or flames. 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**

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. 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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium hypochlorite and ammonia causing fire and explosion hazard.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
2-Aminoethanol 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

*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. 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**

<b>Formula</b>	See Section 3		
<b>Physical State</b>	Liquid		
<b>Appearance</b>	Aqueous solution	<b>Odor</b>	Mild
<b>Color</b>	Clear, Blue	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>	
<b>pH</b>	10.5	+/- 1 @ 21°C	
<b>Melting/freezing point</b>	-9°C / 16° F	None known	

<b>Boiling point / boiling range</b>	No information available.	None known
<b>Flash Point</b>	~ 33°C / ~ 91°F	Closed cup
<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>	0.97 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

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium hypochlorite and ammonia causing fire and explosion hazard.

### Hazardous Decomposition Products

Carbon monoxide (CO). 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.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	Prolonged contact may cause irritation.
<b>Ingestion</b>	Harmful if swallowed.

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Aminoethanol 141-43-5	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit) = 1 mL/kg (Rabbit)	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m <sup>3</sup> (Rat) 4h
Propylene glycol n-butyl ether 5131-66-8	= 5660 µL/kg (Rat) = 1900 mg/kg (Rat)	= 3100 mg/kg (Rabbit)	-
Trade Secret 1	= 5170 mg/kg (Rat)	-	-
Ethylenediaminetetraacetic acid tetrasodium salt 64-02-8	= 10 g/kg (Rat) = 1658 mg/kg (Rat)	-	-

**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.  
IARC: Group 3 (Not classifiable as to its carcinogenicity to humans).  
OSHA: X = Present

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	X

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**

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

<b>Oral LD50</b>	13852 mg/kg
<b>Dermal LD50</b>	16437 mg/kg
<b>Mist</b>	537.80 mg/l

**12. Ecological Data**

**Ecotoxicity**

9.50515% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50
Trade Secret 1	-	37: 96 h Lepomis macrochirus mg/L LC50 static 20-40: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 24: 96 h Oncorhynchus mykiss mg/L LC50 static	36: 48 h Daphnia magna mg/L EC50
Ethylenediaminetetraacetic acid tetrasodium salt 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	59.8: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Lepomis macrochirus mg/L LC50 static	610: 24 h Daphnia magna mg/L EC50
2-Aminoethanol 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC static	65: 48 h Daphnia magna mg/L EC50

		300-1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 200: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 114: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	
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**Persistence and Degradability**

No Information Available.

**Bioaccumulation**

Chemical Name	Partition Coefficient
Isopropyl alcohol 67-63-0	0.05
2-Aminoethanol 141-43-5	-1.91

**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
Isopropyl alcohol 67-63-0	Toxic; Ignitable

**14. TRANSPORT INFORMATION**

**DOT**

**UN/ID No.** 1993  
**Proper shipping name** Flammable liquids, n.o.s. (contains isopropanol)  
**Hazard Class** 3  
**Packing Group** III  
**Emergency Response Guide Number** 128

**15. REGULATORY INFORMATION**

**Chemical Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/EIINC** Does not comply  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINC** - 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. Note: Isopropyl alcohol only needs to be reported if it is being manufactured by the strong acid process. Facilities that process or otherwise use isopropyl alcohol are NOT covered and should NOT file a report.

Chemical Name	SARA 313 - Threshold Values %
Isopropyl alcohol 67-63-0	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substance 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) (40 CFR 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 Nitritotriacetic acid, trisodium salt 5064-31-3; Formaldehyde 500-00-0; Ethyl alcohol 64-17-5.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X	X	X
2-Aminoethanol 141-43-5	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 1	Flammability 3	Instability 0	Physical and Chemical Hazards 0
<b>HMIS</b>	Health Hazard 1	Flammability 3	Physical Hazard 0	Personal Protection B (safety glasses; gloves)

Prepared By Technical Department

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Version 6

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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**