Safety Data Sheet

BSI-45 Degreasing Cleaner and Additive

Section 1 Product Description

Product Name:	BSI-45 Degreasing Cleaner and Additive
Recommended Uses:	Liquid Alkaline Cleaner
Distributor:	Best Sanitizers, Inc. PO Box 1360 Penn Valley, CA 95946
Chemical Information Emergency: Chemtrec	1.800.424.9300

Section 2 Hazard Information

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
Skin corrosion/irritation	Category 1

Danger

Hazard Statements

Causes serious skin burns and eye damage

Appearance—Aqueous solution
Physical state—Liquid
Odor—Solvent

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.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Precautionary Statements—Storage

Stored locked up.

Precautionary Statements—Disposal

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

Hazards not otherwise classified (HNOC)

Not Applicable

Section 3 Composition/Information on Ingredients

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	80-89
Trade Secret 1	Proprietary	3-5
Sodium hydroxide	1310-73-2	2-5
Ethylene glycol monobutyl ether	111-76-2	2-4
Polyethylene glycol monomethyl ether	107-98-2	1-3
Dipropylene glycol monomethyl ether	34590-94-8	1-3
Trade Secret 2	Proprietary	< 1.0

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 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

Symptoms See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media

Dry Chemical. Water spray (fog), Carbon dioxide (CO_2), 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.

Section 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.

Environment 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.

Section 7 Handling and Storage

Precautions for Safe Handling

Advice on Safe 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	Keep Containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.
Incompatible materials	Strong oxidizing agents. Acids.

Section 8 Protection Information

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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
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
Dipropylene glycol monomethyl ether 107-98-2	STEL: 150 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 600 mg/m^3 (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m^3	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m^3 STEL: 150 ppm STEL: 900 mg/m^3
Proylene glycol monomethyl ether 107-98-2	STEL: 100 ppm TWA: 50 ppm	(vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m^3	TWA: 100 ppm TWA: 360 mg/m^3 STEL: 150 ppm STEL: 540 mg/m^3

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 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.

General Hygiene Considerations — 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.

Section 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Formula:	See Section 3	Physical State:	Liquid
Odor:	Solvent	Appearance:	Aqueous solution
Odor Threshold:	No Information Available	Color:	Clear to pale yellow
Property	**Values**		**Remarks—Method**
pH	13		±1 @ 21˚C
Melting Point/Freezing Point	< -6.7˚C / < 20˚ F		
Boiling Point/ Boiling Range	No information available		
Flash Point	> 93.3 ˚C / > 200˚F		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		

Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific Gravity	1.036 g/cc
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Section 10 Stability and Reactivity Data

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

Section 11 Toxicity Data

Information on likely routes of exposure

Product Information

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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol monomethyl ether 107-98-2	= 5000 mg/kg (Rat)	= 13g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
Ethylene glycol monobutyl ether 111-76-2	= 470 mg/kg (Rat)	= 99mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Sodium hydroxide 1310-73-2	-	= 1350mg/kg (Rabbit)	-
Dipropylene glycol monomethyl ether 34590-94-8	= 5400 mg/kg (Rat)	= 9500mg/kg (Rabbit)	-
Trade Secret 2	= 3200 mg/kg (Rat)	= 15440 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 — This product contains one or more substances which are classified by ACGIH: A3-Confirmed animal carcinogen with unknown relevance to humans. IAAC: (Group 3 (Not classifiable as to its carcinogenicity to humans)).

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene glycol monobutyl ether 111-76-2	A3	Group 3	-	-

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% 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) — 13,945 mg/kg

ATEmix (dermal) — 17595 mg/kg

ATEmix (inhalation-dust/mist)) — 50 mg/L

ATEmix (inhalation-vapor) — 69.56 mg/L

Section 12 Ecological Data

Ecotoxicity

Harmful to aquatic life with long lasting effects

4.03% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	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
Sodium hydroxide 1310-73-2	45.4: 96 h Onocorhynchus mykiss mg/L LC50 static	-
Proylene glycol monomethyl ether 107-98-2	20.8: 96 h Pimephales promelas g/L LC50 static 4600-10000: 96 h Leuciscus idus mg/l LC50 static	23300: 48 h Daphnia magna mg/L EC50
Dipropylene glycol monomethyl ether 34590-94-8	10000: 96 h Pimephales promelas mg/L LC50 static	1919: 48 h Daphnia magna mg/L EC50
Trade Secret 2	11619: 96 h Pimephales promelas mg/L LC50 static	10: 48 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
Proylene glycol monomethyl ether 107-98-2	-0.437
Dipropylene glycol monomethyl ether 34590-94-8	-0.064

Mobility Soluble in water.

Other adverse effects No information available.

Section 13 Disposal Information

Waste treatment 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
Sodium hydroxide 1310-73-2	Toxic Corrosive

Section 14 Transport Information

DOT

Not regulated by US DOT

Section 15 Regulatory Information

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply

Legend:

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

US 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 (applies to R-(OCH2CH2)N-OR", where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate, phosphate, nitrate, or sulfonate, Chemical Category N230)

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 regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA Reportable	CWA Toxic Pollutants	CWA Priority Pollutants	CWA Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb	-	-	X

CERCLA

This material, as supplied, contains one ore 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 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

Warning! This product may contain trace amounts of Ethylene oxide 75-21-8.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol monobutyl ether 111-76-2	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

Proylene glycol monomethyl ether 107-98-2	X	X	X
Dipropylene glycol monomethyl ether 34590-94-8	X	X	X
Trade Secret 2	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

Section 16 Additional Information

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Physical and Chemical Properties**
	1	**0**	**0**	**None**
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal protection**
	1	**0**	**0**	**B (safety glasses, gloves)**

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Disclaimer

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End of Safety Data Sheet