

Safety Data Sheet



BSI-400 High-Foaming Acid Cleaner

Section 1

Product Description

Product Name:	BSI-400 High-Foaming Acid Cleaner
Recommended Uses:	Equipment, walls and floors in meat, poultry and food processing plants
Synonyms:	High Foam Acid 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).

Acute toxicity--Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Danger



Hazard Statements

Toxic if inhaled
Causes severe skin burns and eye damage
Appearance—Aqueous solution
Physical State—Liquid
Odor—Solvent

Precautionary Statements—Prevention

Use only outdoors or in a well-ventilated area.
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

Specific treatment (see Section 4 on SDS for more information).
Immediately call a POISON CENTER or doctor/physician.
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 use.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Precautionary Statements—Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

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Precautionary Statements-

Disposal

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

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

Maybe harmful if swallowed

Toxic to aquatic life with long lasting effects.

Section 3

Composition/Information on Ingredients

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	60-66
Phosphoric acid	7664-38-2	25-32
Dipropylene glycol monomethyl ether	34590-94-8	3-7
Dodecylbenzenesulfonic acid	27176-87-0	1-5
Trade Secret	Proprietary	< 0.9

* 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. For severe burns, immediate medical attention is required.

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

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 (CO₂), Foam.

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Unsuitable Extinguishing Media

No Information available.

Specific hazards arising from the chemical

No Information available.

Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO₂). Phosphorus oxides.

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 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 Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

Incompatible materials Chlorinated compounds. Cyanides. Alkali. Certain soft metals.

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Section 8

Protection Information

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	STEL: 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated)STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm TWA: 100 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

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. Wear suitable protective clothing. Rubber Boots 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: Red

Property

Values

Remarks—Method

pH 1 ± 1 @ 21 °C

Melting Point/Freezing Point < -6.7 °C / < 20 ° F

Boiling Point/ Boiling Range No information available

Flash Point No information available

Evaporation rate No information available

Flammability (solid,gas) No information available

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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	1.18 g/cc
Water solubility	Completely Soluble
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. This product will maintain its physical character when stored closed at moderate temperatures, between 28° F and 105° F.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	None known.
Incompatible materials Hazardous	Chlorinated compounds. Cyanides. Alkali. Certain soft metals.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Phosphorus oxides.

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. Vaporizing may be irritating to eyes, nose, throat, and lungs.
Eye Contact	Risk of serious damage to eyes. Corrosive to the eyes and may cause severe damage including blindness.
Skin Contact	Corrosive. Contact causes severe skin irritation and possible burns.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach. Ingestion causes burns of the upper digestive and respiratory tracts.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1h
Dipropylene glycol monomethyl ether 34590-94-8	= 5400 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Dodecylbenzenesulfonic acid 25155-30-0	= 1260 mg/kg (Rat)	-	-

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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 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

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 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD 50 4587 mg/kg Dermal LD50 9151 mg/kg Mist 0.75 mg/l

Section 12

Ecological Data

Ecotoxicity

Toxic to aquatic life with long lasting effects.

0.9% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dodecylbenzenesulfonic acid 27176-87-0	29: 96 h Pseudokirchneriella subcapitata mg/L EC50	10.8:96h Oncorhynchus mykiss mg/L LC50 Static 3.5-10: 96 h Brachydanio rerio mg/L LC50 static	5.88: 48 h Daphnia magna mg/L EC50
Dipropylene glycol monomethyl ether 34590-94-8	.	10000: 96h Pimephales promelas mg/L LC50 static	1919: 48 h Daphnia magna mg/L LC50
Phosphoric acid 7664-38-2	.	3-3.5: 96h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L LC50

Persistence and degradability No Information Available.

Bioaccumulation

Chemical Name	Partition Coefficient
Dipropylene glycol monomethyl ether 34590-94-8	-0.064

Mobility

Soluble in water.

Other adverse effects

No information available.

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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
Phosphoric acid 7664-38-2	Corrosive

Section 14

Transport Information

DOT

UN/ID	1760
Proper shipping name	Corrosive liquids, n.o.s. (Contains phosphoric and dodecylbenzenesulfonic acids)
Hazard Class	8
Packing Group	II
Emergency Response Guide Number	154

Section 15

Regulatory Information

International Inventories

TSCA	No Information Available
DSL/NDSL	No Information Available
EINECS/ELINCS	No Information Available

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 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

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CWA (Clean Water Act)

This product does contains the following substances regulated as pollutants pursuant to the CleanWater Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA-Reportable Quantity	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb	-	-	X
Dodecylbenzenesulfonic acid 27176-87-0	1000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid 7664-38-2	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Dodecylbenzenesulfonic acid 27176-87-0	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X
Dipropylene glycol monomethyl ether 34590-94-8	X	X	X
Dodecylbenzenesulfonic acid 27176-87-0	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number

Not Applicable

Section 16

Additional Information

<u>NFPA</u>	Health Hazards	Flammability	Instability	Physical and Chemical Properties
	3	0	0	Corrosive, Acid
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal protection
	3	0	0	C (safety glasses, gloves, synthetic apron)

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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

BSI-400.003SDS