



SAFETY DATA SHEET

Brewguard Chlorinated Foam Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: BGCFC
Product Name: Brewguard Chlorinated Foam Cleaner
Company Name: Shepard Bros., Inc.
 503 S. Cypress St.
 La Habra, CA 90631
Phone Number: +1 (562)697-1366
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300
Product Category: Foaming Chlorinated Alkaline Cleaner

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A
Aquatic Toxicity (Acute), Category 2



GHS Signal Word: Danger

GHS Hazard Phrases: H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.
 H401 - Toxic to aquatic life.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P273 - Avoid release to the environment.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER or doctor/physician.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

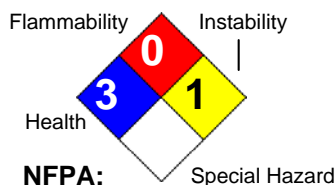
GHS Storage and Disposal Phrases: P501 - Dispose of contents/containers in accordance with local/regional/national/international regulations.



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Brewguard Chlorinated Foam Cleaner

Hazard Rating System:



Potential Health Effects (Acute and Chronic):

Chronic: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.

Inhalation:

Harmful if inhaled. Causes respiratory tract irritation. Vapors may cause dizziness or suffocation. Can produce delayed pulmonary edema. May cause burning sensation in the chest.

Skin Contact:

Harmful if absorbed through the skin. May cause cyanosis of the extremities.

Eye Contact:

Causes eye irritation. May cause chemical conjunctivitis and corneal damage.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts may cause central nervous system depression.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide	5.00 - 15.0 %
7681-52-9	Sodium hypochlorite	1.00 - 5.00 %
NA	Surfactant	<5.00 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.

In Case of Skin Contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical advice/attention.

In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get immediate medical advice/attention.

In Case of Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Note to Physician:

Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.



5. FIRE FIGHTING MEASURES

Flash Pt: NA Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NA

Suitable Extinguishing Media: Foam, CO2, water fog, sand/earth.

Unsuitable Extinguishing Media: Do not use dry chemical extinguisher containing ammonium compounds.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards: Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas. High temperatures and flames may produce: Toxic chlorine, Carbon monoxide, hydrogen chloride, Oxides of potassium, oxides of phosphorus, sodium oxide.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Do not let product enter drains, sewers, watersheds or water systems.

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.
 Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Keep away from heat, sparks and flame. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from sources of ignition. Store in a tightly closed container. Protect containers against damage. Keep container closed when not in use.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide	PEL: 2 mg/m3	TLV: 2 mg/m3 CEIL: 2 mg/m3	No data.
7681-52-9	Sodium hypochlorite	PEL: 0.5 ppm as Cl2 STEL: 1 ppm as Cl2	TLV: 0.5 ppm as Cl2 STEL: 1 ppm as Cl2	No data.
NA	Surfactant	No data.	No data.	No data.



SAFETY DATA SHEET

Brewguard Chlorinated Foam Cleaner

Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with chlorine cartridges when concentrations are unknown.
Eye Protection:	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Chemical resistant boots.
Engineering Controls (Ventilation etc.):	Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Appearance: Clear. Yellowish. Liquid. Odor: chlorine-like.	
Melting Point:	< 32.0 F (0 C)	
Boiling Point:	> 212 F (100 C)	
Autoignition Pt:	NA	
Flash Pt:	NA Method Used: Estimate	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	1.18	
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Evaporation Rate:	No data.	
Solubility in Water:	Complete	
pH:	~ 12.28 - (1% SOLN)	
Percent Volatile:	NA	
Molecular Formula & Weight:	Proprietary Mixture	0.0

10. STABILITY AND REACTIVITY

Reactivity:	Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Excess heat, Incompatible materials, Ignition sources.
Incompatibility - Materials To Avoid:	Strong acids, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
Hazardous Decomposition Or Byproducts:	High temperatures and flames may produce: Toxic chlorine, Carbon monoxide, hydrogen chloride, Oxides of potassium, oxides of phosphorus, sodium oxide. Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid -	No data available.



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Brewguard Chlorinated Foam Cleaner

Hazardous Reactions:

11. TOXICOLOGICAL INFORMATION

Toxicological Information:

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No data available.
Mutagenicity: No information available.
Neurotoxicity: No data available.
Other Studies: CAS# 1310-58-3:
Acute toxicity, LD50, Oral, Rat, 273 mg/kg

Other Studies: CAS# 1643-20-5:
Acute toxicity, LD50, Dermal, Rabbit: > 2000 mg/kg
Acute toxicity, LD50, Oral, Rat: 1064 mg/kg

Other Studies: CAS# 7681-52-9:
Acute toxicity, LD50, Oral, Mouse, 5800 mg/kg

Irritation or Corrosion:

Other Studies: CAS# 1310-58-3:
Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H

Other Studies: CAS# 7681-52-9:
Standard Draize Test, Eyes, Species: Rabbit, 1.310 mg

Carcinogenicity/Other Information:

CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 7681-52-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

Results of PBT and vPvB assessment:

Other Studies: CAS# 1310-58-3:
LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 80000 ug/L, 96H, Mortality

Other Studies: CAS# 1643-20-5:
LC50, Fish, 2.67 mg/L, 96H, Mortality

Other Studies: CAS# 7681-52-9:
LC50, Rainbow trout (*Oncorhynchus mykiss*), 59.00 ug/L, 96H, Mortality
LC50, Water Flea (*Daphnia magna*), 32.00 ug/L, 48H, Mortality
LC50, Bleak (*Alburnus alburnus*), 30000 - 35000 ug/L, 96H, Mortality

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide, Sodium Hypochlorite) (Potassium hydroxide, Sodium hypochlorite)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN3266

Packing Group: II



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
7681-52-9	Sodium hypochlorite	No	Yes 100 LB	No
NA	Surfactant	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

1310-58-3	Potassium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8
7681-52-9	Sodium hypochlorite	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8
NA	Surfactant	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 04/06/2015

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.