

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	HIGHSI-012-BULK	
Product Name:	HS Foam Cleaner	
Company Name:	Morgan-Gallacher, Inc. 8707 Millergrove Drive Santa Fe Springs, CA 90670	Phone Number: +1 (562)695-1232
Emergency Contact:	CHEMTREC	+1 (800)424-9300
Information:		+1 (562)695-1232

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1
Aquatic Toxicity (Acute), Category 2
Corrosive To Metals, Category 1



GHS Signal Word: Danger

GHS Hazard Phrases: H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H401 - Toxic to aquatic life.
H290 - May be corrosive to metals.

GHS Precaution Phrases: P102 - Keep out of reach of children.
P103 - Read label before use.
P262 - Do not get in eyes, on skin, or on clothing.
P260 - Do not breathe fume/mist/vapors/spray.
P280 - Wear rubber gloves, chemical goggles, face shield, and rubber apron.
P221 - Take any precaution to avoid mixing with combustibles, acid products, and ammoniated products.

GHS Response Phrases: P303 - IF ON SKIN (or hair): P361 - Remove/Take off immediately all contaminated clothing.
P352 - Wash with plenty of water for 15 minutes.
P363 - Wash contaminated clothing before reuse.
P332+313 - If skin irritation occurs, get medical advice/attention.
P305 - IF IN EYES: P351 - Rinse cautiously with water for 15 minutes.
P338 - Remove contact lenses, if present and easy to do. Continue rinsing.
P315 - Get immediate medical advice/attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P315 - Get immediate medical advice/attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 - If experiencing respiratory symptoms: P313 - Get medical advice/attention.

GHS Storage and Disposal Phrases: Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300.
P501 - Dispose of contents/container in accordance with local, state and federal regulations.
P405 - Store locked up.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation: May be harmful if inhaled. Causes chemical burns to the respiratory tract. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Skin Contact: May cause severe burns with delayed tissue destruction. Causes redness and pain. Causes skin irritation. May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye burns. May cause irreversible eye injury. Causes eye irritation. Causes redness and pain. May cause chemical conjunctivitis and corneal damage.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide	<10.0 %
7681-52-9	Sodium hypochlorite	< 3.0 %
7320-34-5	TKPP	< 5.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid immediately.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid if irritation develops and persists.

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. Continue rinsing. Get medical aid immediately.

In Case of Ingestion: If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately. Never give anything by mouth to an unconscious person.

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

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

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

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Flammable Properties and Hazards: No data available.

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:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Avoid extremely high temperature. Use with adequate ventilation.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container closed when not in use. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide	PEL: 2.0 mg/m3	CEIL: 2 mg/m3	No data.
7681-52-9	Sodium hypochlorite	No data.	TLV: 0.5 ppm as Cl2 STEL: 1 ppm as Cl2	No data.
7320-34-5	TKPP	No data.	No data.	No data.
Respiratory Equipment (Specify Type):	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			
Eye Protection:	Splash proof safety goggles.			
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.			
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.			
Work/Hygienic/Maintenance Practices:	Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas	[X] Liquid	[] Solid
Appearance and Odor:	Light yellow. Liquid. Transparent.		
Melting Point:	No data.		
Boiling Point:	No data.		
Autoignition Pt:	No data.		
Flash Pt:	No data.		
Explosive Limits:	LEL: No data.		UEL: No data.
Specific Gravity (Water = 1):	1.108 - 1.128		

Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Evaporation Rate: No data.
Solubility in Water: No data.
Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Excess heat, Incompatible materials, Light.
Incompatibility - Materials To Avoid: Acids, ammonia, metals, Strong oxidizing agents.
Hazardous Decomposition Or Byproducts: Hydrogen chloride, chlorine, hydrogen gas, oxides of sodium, oxides of phosphorus, oxides of potassium.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information found.
Teratogenicity: No information available.
Reproductive Effects: No information found.
Mutagenicity: No information found.
Neurotoxicity: No information found.
Respiratory or skin sensitization: No information found.

Irritation or Corrosion: Other Studies: CAS# 7320-34-5
Acute toxicity, LD50, Dermal, Rabbit: 4640 mg/kg
Acute toxicity, LD50, Oral, Rat: 2444 mg/kg

Other Studies: CAS# 1310-73-2
Acute toxicity, LD50, Oral, Mouse, 5800mg/kg.

Other Studies: CAS# 1310-73-2
Standard Draize Test, Eyes, Species: Rabbit, 400.0 ug

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

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

Carcinogenicity/Other Information: ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information found.
Physical: No information found.

CAS# 7320-34-5: TKPP: LC50, Medaka, High-Eyes (*Oryzias latipes*), 590000. , 24 H.
Result: Affected fish stopped schooling behavior. Affected fish became hyperactive.
Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.

Results of PBT and vPvB assessment:

Other Studies: CAS# 7320-34-5:
LC50, Zebra mussel (*Dreissna polymorpha*), adult(s), 94000 ug/L, 96H, Mortality

Other Studies: CAS# 1310-73-2:
LC50, Common Shrimp, Sand Shrimp (*Crangon crangon*), adult(s), 33000 - 100000 ug/L, 48H, Mortality
LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 125000 ug/L, 96H, Mortality
LC50, Cockle (*Cerastoderma edule*), adult(s) 330000 - 1000000 ug/L, 48H, Mortality
LC50, Guppy (*Poecilia reticulata*), young organism(s), 196.0 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.

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. Contact a licensed professional waste disposal service to dispose of this material.

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
7320-34-5	TKPP	No	No	No

CAS # Hazardous Components (Chemical Name)

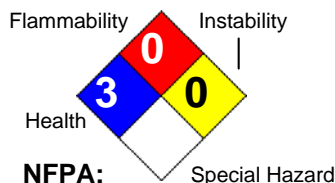
Other US EPA or State Lists

1310-58-3	Potassium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1571; NY Part 597: Yes; PA HSL: Yes - E
7681-52-9	Sodium hypochlorite	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1707; NY Part 597: Yes; PA HSL: Yes - E
7320-34-5	TKPP	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

Revision Date: 03/04/2015

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.