

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** MORGAN-222-BULK  
**Product Name:** FCC-3 Special  
**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

## 2. HAZARDS IDENTIFICATION

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



**GHS Signal Word:**

**Danger**

**GHS Hazard Phrases:**

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Toxic to aquatic life.  
May be corrosive to metals.

**GHS Precautionary Phrases:**

Keep out of reach of children.  
Read label before use.  
Do not get in eyes, on skin, or on clothing.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear rubber gloves, chemical goggles, face shield, and rubber apron.  
Take any precaution to avoid mixing with Acid Products and Ammoniated products..

**GHS Response Phrases:**

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.  
If skin irritation occurs, get medical advice/attention.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If experiencing respiratory symptoms: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.  
Wash with plenty of water for 15 minutes. Get immediate medical advice/attention.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

**GHS Storage and Disposal Phrases:**

Store locked up.  
Dispose of contents/container in accordance to local, state and federal regulations.

<b>Potential Health Effects (Acute and Chronic):</b>	Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause dermatitis. Chronic: Probable mucosal damage may contraindicate the use of gastric lavage.
<b>Inhalation:</b>	Harmful if inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause burns to the upper respiratory tract and lungs.
<b>Skin Contact:</b>	May cause skin irritation. May cause redness and pain. May cause severe burns to the skin. May cause tissue destruction.
<b>Eye Contact:</b>	May cause eye irritation. May cause redness and pain. May cause severe burns to the eyes. May cause chemical conjunctivitis and corneal damage. May cause eye damage.
<b>Ingestion:</b>	Harmful if swallowed. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause burns to the gastrointestinal tract. May cause severe and permanent damage to the digestive tract.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide	<10.0 %
NA	Phosphate	< 5.0 %
7681-52-9	Sodium hypochlorite	< 5.0 %
NA	Surfactant	< 3.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. Get medical attention immediately.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid. Wash clothing before reuse.
<b>In Case of Eye Contact:</b>	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 attention immediately.
<b>In Case of Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. 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.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NA Method Used: Not Applicable
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	NA
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or appropriate foam.
<b>Fire Fighting Instructions:</b>	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.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains, sewers, watersheds or water systems.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in Protective Equipment section. Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Keep container closed. Avoid extremely high temperature.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Keep container closed when not in use.
<b>Other Precautions:</b>	Handle in accordance with good industrial hygiene and safety practice. 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: 2.0 mg/m3	CEIL: 2 mg/m3	No data.
NA	Phosphate	No data.	No data.	No data.
7681-52-9	Sodium hypochlorite	No data.	TLV: 0.5 ppm as Cl2 STEL: 1 ppm as Cl2	No data.
NA	Surfactant	No data.	No data.	No data.

  

<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Splash proof safety goggles.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Clear Yellow Liquid. Odor: Mild. chlorine.	
<b>pH:</b>	> 12 - (neat)	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	>= 210.00 F	
<b>Flash Pt:</b>	NA Method Used: Not Applicable	
<b>Evaporation Rate:</b>	NA	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA	
<b>Vapor Density (vs. Air = 1):</b>	NA	
<b>Specific Gravity (Water = 1):</b>	1.18	
<b>Density:</b>	9.86 LB/GA	
<b>Bulk density:</b>	NA	
<b>Solubility in Water:</b>	Complete	
<b>Saturated Vapor Concentration:</b>	NA	
<b>Octanol/Water Partition Coefficient:</b>	No data.	
<b>Percent Volatile:</b>	75.0 % by weight.	
<b>VOC / Volume:</b>	NA	
<b>HAP / Volume:</b>	NA	
<b>Autoignition Pt:</b>	NA	
<b>Decomposition Temperature:</b>	NA	
<b>Viscosity:</b>	NA	
<b>Particle Size:</b>	NA	
<b>Heat Value:</b>	NA	
<b>Corrosion Rate:</b>	NA	

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	High temperatures, Incompatible materials, Light.
<b>Incompatibility - Materials To Avoid:</b>	Metals, Acids. ammonia, Strong oxidizing agents.
<b>Hazardous Decomposition or Byproducts:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, Hydrogen chloride, chlorine, hydrogen gas, and oxides of: potassium, sodium.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

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

Other Studies: Phosphate:  
 Acute toxicity, LD50, Oral, Rat, 3120 mg/kg

Other Studies: Surfactant:  
 Acute toxicity, LD50, Dermal, Rabbit: > 2000 mg/kg  
 Acute toxicity, LD50, Oral, Rat: 1064 mg/kg

CAS# 1310-58-3: Potassium hydroxide: Mutagenicity:, Mutation test: Cytogenetic analysis., Rat, 1800. MG/KG, Cell Type: Ascites tumor.  
 Acute toxicity, LD50, Oral, Rat, 273.0 MG/KG.

CAS# 7681-52-9: Sodium hypochlorite: Acute toxicity, LD50, Oral, Mouse, 5800. MG/KG.  
 Standard Draize Test, Eyes, Rabbit, 1.310 mg, Mild.

**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, Mild

**Carcinogenicity:**

NTP? No      IARC Monographs? No      OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-58-3	Potassium hydroxide	n.a.	n.a.	n.a.	n.a.
NA	Phosphate	n.a.	n.a.	n.a.	n.a.
7681-52-9	Sodium hypochlorite	n.a.	n.a.	n.a.	n.a.
NA	Surfactant	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:**

Environmental: No information found.  
 Physical: No information found.  
 Other: No information available.  
 CAS# 1310-58-3: Potassium hydroxide: LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 80000. UG/L, 96 H, Mortality.  
 Effective concentration to 0 % of test organisms, Zebra Mussel (*Dreissena polymorpha*), 1000. UG/L, Mortality.  
 100% mortality or 0% survival of organism., Pond Snail (*Lymnaea sp.*), 150.0 PPM, 24 H, Mortality.  
 100% mortality or 0% survival of organism., Bony Fishes (*Osteichthyes*), 0.000 MOL/KG, 560 M, Mortality.  
 CAS# 7681-52-9: Sodium hypochlorite: LC50, Harpacticoid Copepod (*Nitocra spinipes*),

adult(s), 38000. UG/L, 96 H, Mortality.

**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# 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.

Other Studies: Phosphate  
LC50, Medaka, High-Eyes (*Oryzias latipes*), 590000 ug/L, 24H, 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.

**14. TRANSPORT INFORMATION**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Potassium Hydroxide and 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
NA	Phosphate	No	Yes 5000 LB	No
7681-52-9	Sodium hypochlorite	No	Yes 100 LB	No
NA	Surfactant	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Specific target organ toxicity (single or repeated exposure)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Simple Asphyxiant

Yes  No In contact with water emits flammable gas

Yes  No (Health) Hazard Not Otherwise Classified (HNOC)

Yes  No Combustible Dust

Yes  No (Physical) Hazard Not Otherwise Classified (HNOC)

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-58-3	Potassium hydroxide	CWA NPDES: No; 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: No; NY Part 597: Yes: HS; PA HSL: Yes - E
NA	Phosphate	CWA NPDES: No; 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: No; NY Part 597: Yes: HS; PA HSL: Yes - E
7681-52-9	Sodium hypochlorite	CWA NPDES: No; 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: No; NY Part 597: Yes: HS; PA HSL: Yes - E
NA	Surfactant	CWA NPDES: No; 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:** 10/04/2018

**Additional Information About This Product:** 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.