

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** MORGAN-220-BULK  
**Product Name:** Special Liquid Caustic  
**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

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



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** May be corrosive to metals.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.

**GHS Precaution 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.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Take any precaution to avoid mixing with Acid 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.  
Get immediate medical advice/attention.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If experiencing respiratory symptoms: Get immediate 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. 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.

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

<b>Potential Health Effects (Acute and Chronic):</b>	Chronic: Prolonged or repeated skin contact may cause dermatitis.
<b>Inhalation:</b>	Inhalation may cause irritation, coughing, sore throat, and in extreme cases, pulmonary edema. Inhalation of vapors may cause drowsiness and dizziness.
<b>Skin Contact:</b>	May cause severe burns with delayed tissue destruction. May cause skin irritation. Causes redness and pain.
<b>Eye Contact:</b>	May cause eye irritation. Causes severe eye burns. May cause irreversible eye injury. Causes redness and pain.
<b>Ingestion:</b>	Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause severe and permanent damage to the digestive tract.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	<50.0 %
NA	( Trade Secret )	< 5.0 %

### 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 aid immediately. Do NOT use mouth-to-mouth resuscitation.
<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 immediately. 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 aid immediately.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth. Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
<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>	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Do NOT use straight streams of water.
<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. Use water spray to keep fire-exposed containers cool. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Toxic fumes may be emitted under fire conditions.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sodium, phosphine, phosphorus, Contact of this product with many "active" metals such as aluminum, tin, copper, zinc, and most alloys can cause formation of flammable hydrogen gas.

## 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. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Do not let product enter drains. Discharge into the environment must be avoided.

## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Use only in a well-ventilated area. Keep container tightly closed. Keep away from heat, sparks and flame.
<b>Precautions To Be Taken in Storing:</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from acids.
<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
1310-73-2	Sodium hydroxide	PEL: 2 mg/m <sup>3</sup>	CEIL: 2 mg/m <sup>3</sup>	No data.
NA	( Trade Secret )	No data.	No data.	No data.

  

<b>Respiratory Equipment (Specify Type):</b>	If vapor concentration exceeds ACGIH-TLV or OSHA-PEL, use NIOSH/MSHA approved respirator with an organic vapor cartridge.
<b>Eye Protection:</b>	Wear safety glasses with side shields or chemical splash 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>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Appearance: Transparent. Amber. Liquid.	
<b>pH:</b>	> 13	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	No data.	
<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	

**Specific Gravity (Water = 1):** 1.478 - 1.498  
**Bulk density:** NA  
**Solubility in Water:** Complete  
**Saturated Vapor Concentration:** NA  
**Octanol/Water Partition Coefficient:** No data.  
**Percent Volatile:** N.A.  
**VOC / Volume:** NA  
**Autoignition Pt:** NA  
**Decomposition Temperature:** NA  
**Viscosity:** NA  
**Particle Size:** NA  
**Heat Value:** NA  
**Corrosion Rate:** NA

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [  ] Stable [  ]  
**Conditions To Avoid - Instability:** Avoid extremely high temperature. Direct sunlight.  
**Incompatibility - Materials To Avoid:** Acids, Strong oxidizing agents, Contact of this product with many "active" metals such as aluminum, tin, copper, zinc, and most alloys can cause formation of flammable hydrogen gas.  
**Hazardous Decomposition or Byproducts:** High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, phosphine, phosphorus, and oxides of: phosphorus, and sodium.  
**Possibility of Hazardous Reactions:** Will occur [  ] Will not occur [  ]  
**Conditions To Avoid - Hazardous Reactions:** 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.

CAS# 1310-73-2: Sodium hydroxide: Standard Draize Test, Eyes, Species: Monkey., 1.000 %, 24 H.  
 Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.  
 CAS# NA: ( Trade Secret ): Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.

**Irritation or Corrosion:** 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

**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		
CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.	
NA	( Trade Secret )	n.a.	n.a.	n.a.	n.a.	

## 12. ECOLOGICAL INFORMATION

<b>General Ecological Information:</b>	Environmental: No information available. Physical: No information available.
<b>Results of PBT and vPvB assessment:</b>	Other Studies: CAS# 1310-73-2: LC50, Common Shrimp, Sand Shrimp ( <i>Crangon crangon</i> ), adult(s), 33000 - 100000 ug/L, 48H, Mortality LC50, Western Mosquitofish ( <i>Gambusia affinis</i> ), adult(s), 125000 ug/L, 96H, Mortality LC50, Cockle ( <i>Cerastoderma edule</i> ), adult(s) 330000 - 1000000 ug/L, 48H, Mortality LC50, Guppy ( <i>Poecilia reticulata</i> ), young organism(s), 196.0 mg/L, 96H, Mortality
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	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.
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## 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

<b>DOT Proper Shipping Name:</b>	Sodium hydroxide solution.		
<b>DOT Hazard Class:</b>	8	CORROSIVE	
<b>UN/NA Number:</b>	UN1824	<b>Packing Group:</b>	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)
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
NA	( Trade Secret )	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
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Combustible Dust		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Physical) Hazard Not Otherwise Classified (HNOC)		

### CAS # Hazardous Components (Chemical Name)

1310-73-2 Sodium hydroxide

NA ( Trade Secret )

### Other US EPA or State Lists

CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No;  
CA TAC, Title 8: TAC: Cat. IIb, Title 8; MA Oil/HazMat: Yes;  
MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS;  
PA HSL: Yes - E

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:** 09/24/2018

**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.