

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-089-BULK
Product Name: Fry Out
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

Acute Toxicity: Oral, Category 4
Skin Corrosion, Category 1A
Eye Irritation, Category 2A
Corrosive To Metals, Category 1
Aquatic Toxicity (Acute), Category 3



GHS Signal Word: **Danger**

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

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.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Take any precaution to avoid mixing with Water and Acid Products
Use only outdoors or in a well-ventilated area.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.
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. Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Get immediate medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention.

GHS Storage and Disposal Phrases: Store locked up.
Dispose of contents/container to ...

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

Potential Health Effects (Acute and Chronic):	Prolonged or repeated skin contact may cause dermatitis.
Inhalation:	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.
Skin Contact:	May be harmful if absorbed through the skin. May cause skin irritation. May cause severe burns to the skin.
Eye Contact:	May cause severe eye irritation. Can cause reddening and tearing. May cause burns to the eyes. May cause serious eye damage.
Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause burns to the digestive tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	<80.0 %
497-19-8	Sodium carbonate	<15.0 %
68081-81-2	Sodium benzenesulfonate	< 5.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately. Do NOT use mouth-to-mouth resuscitation. 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. Wash clothing before reuse. Get medical attention immediately.
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 attention immediately.
In Case of Ingestion:	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. Get medical attention 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: Not Applicable
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Unsuitable Extinguishing Media:	Do not use halogenated extinguishing agents or foam. Do NOT use straight streams of water.
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. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Do NOT get water inside containers. Contain run-off waters. Toxic fumes may be emitted under fire conditions.
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sodium. High temperatures and fire conditions can result in the formation of carbon monoxide

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Hazardous Combustion Products: and carbon dioxide, and oxides of: sodium, 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

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: Vacuum or sweep up material and place in disposal container. Avoid generating dusty conditions. Ensure adequate ventilation. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Do not allow water to get into the container because of violent reaction. Do not add water to this product. Always add this product to water with adequate mixing when making solutions.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Keep away from metals. Keep away from acids. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.

Other Precautions: 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/m3	CEIL: 2 mg/m3	No data.
497-19-8	Sodium carbonate	No data.	No data.	No data.
68081-81-2	Sodium benzenesulfonate	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Avoid breathing vapors or dusts. If ventilation is not sufficient to effectively prevent buildup of vapors, mists, or dusts, use a NIOSH/MSHA approved respirator. NIOSH/MSHA respirator with dust/mist cartridges.

Eye Protection: Wear safety glasses with side shields or chemical splash 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. Chemical resistant apron. Rubber or neoprene boots.

Engineering Controls (Ventilation etc.): 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.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [] Liquid [X] Solid
Appearance and Odor:	Appearance: Off-white. Granular. Free flowing powder.
pH:	No data.
Melting Point:	NA
Boiling Point:	NA
Flash Pt:	NA Method Used: Not Applicable
Evaporation Rate:	Not available
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	Not available
Vapor Density (vs. Air = 1):	Not available
Specific Gravity (Water = 1):	Not available
Density:	Not available
Bulk density:	Not available
Solubility in Water:	Soluble
Saturated Vapor Concentration:	Not available
Octanol/Water Partition Coefficient:	No data.
Percent Volatile:	NA
VOC / Volume:	NA
HAP / Volume:	NA
Autoignition Pt:	NA
Decomposition Temperature:	NA
Viscosity:	Not available
Particle Size:	Not available
Heat Value:	Not available
Corrosion Rate:	Not available

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sodium, Contact of this product with many "active" metals such as aluminum, tin, copper, zinc, and most alloys can cause formation of flammable hydrogen gas.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials, dust generation, Excess heat, Exposure to moist air or water, Moisture, contact with water.
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, and oxides of: sodium.
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 available.
 Teratogenicity: No information available.
 Reproductive Effects: No data available.
 Mutagenicity: No information available.
 Neurotoxicity: No data available.

CAS# 1310-73-2: Sodium hydroxide: Acute toxicity, LC50, Inhalation, Rat, 10000. PPM, 5 H.

Acute toxicity, LD50, Skin, Species: Rabbit, 13.00 GM/KG.

Acute toxicity, LD50, Oral, Rat, 325.0 MG/KG.

Acute toxicity, LD50, Dermal, Rabbit, 1350. MG/KG.

CAS# 497-19-8: Sodium carbonate: Acute toxicity, LD50, Oral, Rat, 4090. MG/KG.

Acute toxicity, LC50, Inhalation, Mouse, 1200. MG/M3, 2 H.

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.
497-19-8	Sodium carbonate	n.a.	n.a.	n.a.	n.a.
68081-81-2	Sodium benzenesulfonate	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
 Physical: No information available.

CAS# 1310-73-2: Sodium hydroxide: LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000. - 100000. UG/L, 48 H, Mortality.

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000. UG/L, 24 H, Mortality.

LC50, Goldfish (Carassius auratus), 160000. UG/L, 24 H, Mortality.

CAS# 497-19-8: Sodium carbonate: LC50, Water Flea (Daphnia magna), Unreported., 265000. UG/L, 48 H, 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: SODIUM HYDROXIDE, SOLID. mixture.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1823 **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)
1310-73-2	Sodium hydroxide	No	Yes NA	No
497-19-8	Sodium carbonate	No	No	No
68081-81-2	Sodium benzenesulfonate	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 checked="" type="checkbox"/> Yes <input 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)

Other US EPA or State Lists

1310-73-2	Sodium hydroxide	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
497-19-8	Sodium carbonate	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
68081-81-2	Sodium benzenesulfonate	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: 01/26/2023

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.