1. Product and Company Identification

Product Code: NA230

Product Name: NATRIUM 230

Company Name: LibreChem, Inc.
12340 Seal Beach Blvd B-301
Seal Beach, CA 90740

Phone Number: (562)233-8376

Emergency Contact: CHEMTREC

Phone Number: (800)424-9300

Product Category: Alkaline Cleaner

2. Hazards Identification

Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1

GHS Signal Word: **Danger**

GHS Hazard Phrases:
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H290 - May be corrosive to metals.

GHS Precautionary Phrases:
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

GHS Storage and Disposal Phrases:
P405 - Store locked up.
P501 - Dispose of contents/container to an approved facility. Dispose of in accordance with local, state and federal regulations.

Inhalation: May cause nose, throat, and lung irritation.

Skin Contact: Causes skin irritation. Severely irritating, may cause permanent skin damage.

Eye Contact: Causes serious eye damage.

Ingestion: Causes digestive tract burns.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
1310-73-2	Sodium hydroxide	<40.0 %	

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 aid if irritation or symptoms occur.

In Case of Skin Contact: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts and watchbands. Suitable emergency safety shower facility should be immediately available.

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 medical attention. Washing with water is the only acceptable method of removal of caustic soda from the eyes and skin. You may have 10 seconds or less to avoid serious permanent injury. Suitable emergency eye wash facility should be immediately available.

In Case of Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center 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. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures

Flash Pt: > 212.00 F (100.0 C) Method Used: Pensky-Marten Closed Cup

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

Autoignition Pt: No data.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Not known.

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 proper personal protective equipment as indicated in Section 8. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire exposed containers cool.

Flammable Properties and Hazards: In a fire or heated, a pressure increase will occur and the container may burst.

Hazardous Combustion Products: Oxides of sodium and potassium.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ensure ventilation. Local authorities should be advised if significant spillage cannot be contained. for personal protection, see Section 8 of the SDS.

Environmental Precautions: Discharge into the environment must be avoided. Do not let product enter drains, sewers, watersheds or water systems. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Stop flow of material if without risk. Never return spills to original containers for re-use. For waste disposal see section 13 of the SDS.

7. Handling and Storage

Precautions To Be Taken in Handling: Do not get in eyes, on skin or on clothing. Wash hands thoroughly with mild soap and water after handling and before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Precautions To Be Taken in Storing: Keep container tightly closed.
Store away from incompatible substances. Store at temperatures above 50C/122F. Do not store in Zinc, Aluminum, Brass, Tin.

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

8. Exposure Controls/Personal Protection

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
1310-73-2	Sodium hydroxide	ACGIH TLV	CEIL: 2 mg/m3	
		California, USA PELs	CEIL: 2 mg/m3 ()	
		NIOSH	CEIL: 2 mg/m3	
		OSHA PELs	PEL: 2 mg/m3	

Respiratory Equipment (Specify Type): No special respiratory protection is needed under normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.

Protective Gloves: Wear chemical resistant protective gloves. The breakthrough time of the selected gloves must be greater than the intended use period. Rubber or neoprene gloves. Nitrile 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 general or local exhaust ventilation to minimize exposure levels.

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: Liquid. colorless.
pH:	12.8 - neat (1.0 %) at 25.0 C (77.0 F)
Melting Point:	No data.
Boiling Point:	> 212.00 F (100.0 C)
Flash Pt:	> 212.00 F (100.0 C) Method Used: Pensky-Marten Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	Not applicable.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Specific Gravity (Water = 1):	No data.
Density:	1.39 at 25.0 C (77.0 F)
Solubility in Water:	Soluble
Solubility Notes:	Soluble in water.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials.
Incompatibility - Materials To Avoid:	Flammable liquids. Acids. Contact with soft metals such as aluminum, magnesium, zinc, can cause formation of flammable hydrogen gas.
Hazardous Decomposition or Byproducts:	Hazardous decomposition products formed under fire conditions. Carbon monoxide. Carbon dioxide. Oxides of sodium.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Toxicological Information: Routes of Entry: Inhalation, Eye contact, Skin contact.

Irritation or Corrosion: Causes skin irritation. Pain, redness, blistering may occur.
Serious eye damage/eye irritation: Eye irritation. Pain , watering, redness may occur.
May cause nose, throat, and lung irritation.

Sensitization: Not a sensitizer.

Chronic Toxicological Effects: No known significant effects or critical hazards.

Carcinogenicity/Other Information: Not classified as carcinogenicity to humans.

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.

12. Ecological Information

No data available.

Persistence and Degradability: No Data Available.

Mobility in Soil: No Data Available.

13. Disposal Considerations

Waste Disposal Method: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb and/or contain spill with sand, earth, inert material or other non-combustible absorbent material then place in suitable container. Clean up spills immediately and dispose of waste safely. Dispose of absorbed material in accordance with regulations. Do not let product enter drains, sewers, watersheds or water systems.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Sodium Hydroxide Solution.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: 1824 **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 1000 LB	No

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

[ ] Yes [X] No Explosive
[ ] Yes [X] No Flammable (gases, aerosols, liquid, or solid)
[ ] Yes [X] No Oxidizer (liquid, solid or gas)
[ ] Yes [X] No Self-reactive
[ ] Yes [X] No Pyrophoric (liquid or solid)
[ ] Yes [X] No Pyrophoric gas
[ ] Yes [X] No Self-heating
[ ] Yes [X] No Organic peroxide
[ ] Yes [X] No Corrosive to metal
[ ] Yes [X] No Acute toxicity (any route of exposure)
[X] Yes [ ] No Skin Corrosion or Irritation
[X] Yes [ ] No Serious eye damage or eye irritation
[ ] Yes [X] No Respiratory or Skin Sensitization
[ ] Yes [X] No Germ cell mutagenicity
[ ] Yes [X] No Carcinogenicity
[ ] Yes [X] No Reproductive toxicity
[ ] Yes [X] No Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No Aspiration Hazard

[ ] Yes [X] No Gas under pressure (compressed gas)
[ ] Yes [X] No In contact with water emits flammable gas
[ ] Yes [X] No Combustible Dust
[ ] Yes [X] No (Physical) Hazard Not Otherwise Classified (HNOC)
[ ] Yes [X] No Simple Asphyxiant
[ ] Yes [X] No (Health) Hazard Not Otherwise Classified (HNOC)

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-73-2	Sodium hydroxide	CAA HAP,ODC: No CWA NPDES: No TSCA: Yes - Inventory: Active/Exempt FIFRA: Yes - Active - 103901: Unspecified, Inert: F/NF FDA/DEA CSA: No CA PROP.65: No CA TAC, Title 8: TAC: Cat. IIb, Title 8 MA Oil/HazMat: Yes MI CMR, Part 5: Part 5 NC TAP: No NJ EHS: No NY Part 597: Yes: HS PA HSL: Yes - E SC TAP: Yes WI Air: Yes

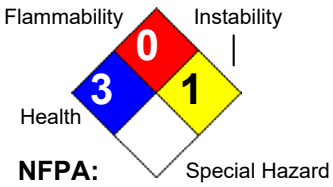
Regulatory Information Statement: California Proposition 65: California safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Revision Date: 10/18/2020

Preparer Name: Regulatory Affairs

Hazard Rating System:



NFPA:

Additional Information About This Product: No Data Available.

Company Policy or Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Users should make their own investigations to determine the suitability of the information for their particular purposes. LibreChem products are intended for use in the manufacturer and/or formulation of products and are not intended for direct consumer use.