



Material Safety Data Sheet FOR CAUSTIC SODA

1. Company Identification:

M/s Sree Rayalaseema Alkalies & Allied Chemicals Ltd., Gondiparla, Kurnool.

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2. Product Identification

Chemical Name : Sodium Hydroxide

Trade name : Caustic Soda

Synonyms : Caustic Soda Flakes

Chemical Formula : NaOH

Molecular Weight : 40 g/mole

CAS Registry No. : 1310-73-2

UN No. : 1823

3. Hazards Identification :

THIS PRODUCT MAY BE : Corrosive, toxic and a major potential hazard upon contact to skin and eyes.

Toxicity Routes Of Exposure: Ingestion can cause severe burning and pain in lips, mouth, tongue, throat and stomach, Death can result from ingestion.

Over Exposure : Causes burns and scarring. Can cause serious damage to all body tissues contacted.

Cancer Information : Not applicable.

Medical Conditions Aggravated By Exposure : Chronic eye or skin conditions.

4. First Aid Measures :

SKIN : Remove contaminated clothing and immediately wash skin for a minimum of 15 minutes. Call or see a Physician.

EYES : Immediately flush eyes with large amount of water, occasionally lifting the upper and lower eyelids and rotating the eyeballs. Continue flushing for a minimum of 15 minutes. See a physician.

INHALATION : Remove to fresh air, if breathing stops, administer artificial respiration. See a physician.

INGESTION : DO NOT Induce vomiting, if person is conscious, give 2 or more glasses of water, if unconscious, never give anything by mouth. See a physician immediately.

5. Fire Fighting Measures :

Auto ignition Point : Not Applicable

Flammability/Explosive limits : Not applicable

Fire/Explosion Hazards : Contact with strong acids may generate enough heat to ignite combustibles.

Fire Prevention : Not Applicable.

6. Accidental Release Measures

In case of spill or release : Completely contain spilled material with dikes, sandbags, etc., and prevent run off into the ground or surface waters or sewers. Recover as much caustic material as possible into containers for disposal. Add water and neutralize remaining caustic material with dilute hydrochloric acid, citric acid or another solid acidic material to a pH between 6 and 9. Collect neutralized caustic with a dry sorbent. Flush residual neutralized waste to the drain with excess water.

7. Handling and Storage :

Storage Requirements : Keep container tightly closed.

For Small Volumes : May be stored in plastic jugs.

For Large Volumes : May be stored in steel storage tanks.

Incompatible Materials : Store away from acids. (Refer to Section X)

8. Exposure Controls and Protection :

Adequate ventilation needed.

TLV C : 2 mg/m³

Protective Equipment for the eyes and skin :

Goggles, respirator, disposable latex/rubber apron, PVC rain suit, rubber boots with pant legs over boots.

Precautionary Hygiene/control measures:

Avoid contact with skin, eyes, and clothing. Do not breathe mist or vapor. Wash thoroughly after handling. Safety showers and eye wash fountains should be available in storage and handling area.



SREE RAYALASEEMA ALKALIESAND
ALLIED CHEMICALS LIMITED,
KURNOOL.

9. Physical and chemical properties

STATE : Solid; Liquid
APPEARANCE : Colorless or slightly turbid
ODOR : Irritating
pH : Strong base >14
BOILING POINT : 1390°C for -50% NaOH Solution
FLASH POINT : Not determined
SPECIFIC GRAVITY: 1.48 - 1.52 for Lye
SPECIFIC GRAVITY: 2.12 for Flakes
VAPOR PRESSURE -6.3 mm Hg @ 40 °C
SOLUBILITY IN: Water : miscible, ACID: miscible

10. Stability and reactivity

Stable under normal handling conditions, Materials and conditions to avoid (incompatibility) are:

- Chlorinated hydrocarbons, acetaldehyde, acrolein, aluminum, chlorine trifluoride, hydroquinone, maleic anhydride, and phosphorous pentoxide.
- Dilution with water evolves large quantity of heat.

Hazardous decomposition & combustion product - none.
Hazardous polymerization will not occur.

11. Toxicological Information :

Effects from skin contact - Contact with skin can cause severe burns with deep ulcerations. Contact with solution or mist can cause multiple burns with temporary loss of hair at burn site.

Effects from eye contact - Liquid in the eye can cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye. Mist can cause irritation with high concentration causing destructive burns.

12. Ecological Information :

Eco toxicity data : High basicity may pose potential hazard to plant and marine life.

13. Disposal Consideration

Dispose of in accordance with all Government and Local regulations.

14. Transport Information

Transportation of Dangerous Goods
TDG Classification: Do not ship by air.
DOT Hazard Classification : Class B: Corrosive
DOT Shipping Name : Sodium Hydroxide
ID:UN1824.

15. Regulatory Information:

APPCB, Kurnool.
Dy. Chief Inspector of Factories,
Kurnool

16 . Disclaimer

Information contained in this MSDS is believed to be reliable. But no guarantee is made as to its accuracy, suitability for a particular application or results to be obtained from them.

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