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MSDS- CAUSTIC SODA LYE

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1.Potential Health Effects

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.

OVEREXPOSURE : 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

2. Information of ingredients

Sodium Hydroxide, % : 32 – 52 % by weight

Chemical Formula : NaOH

Molecular Weight : 40 g/mole

CAS Registry No. : 1310-73-2

3.First aid measures

SKIN : Remove contaminated clothing and immediately wash skin for a minimum of 15 minutes. Contact 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.

4. Fire and Explosion Data

Autoignition 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

5. 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. Follow the environmental protection procedures.

6. Handling and Storage

Storage Requirements: Keep container tightly closed.

FOR SMALL VOLUMES : Maybe stored in plastic jugs.

FOR LARGE VOLUMES ; Store in steel storage tanks.

INCOMPATIBLE MATERIALS : Store away from acids

7. Exposure Controls/Personal 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.

Hygiene measures :General industrial hygiene practice

8. Physical and Chemical Properties

<p>STATE : liquid APPEARANCE : colorless or slightly turbid ODOR : Irritating pH : Strong base BOILING POINT : 145 0C for ~50% NaOH Solution FLASH POINT ; Not determined SPECIFIC GRAVITY : 1.51-1.54 VAPOR PRESSURE : ~6.3 mm Hg @ 400C SOLUBILITY IN : WATER: miscible, ACID : miscible</p>
<p>9. Stability and Reactivity Data</p>
<p>Stable under normal handling conditions. Materials and conditions to avoid (incompatibility) are:</p> <ul style="list-style-type: none"> - Chlorinated hydrocarbons, acetaldehyde, acrolein, aluminum, chlorine trifluoride, hydroquinone, maleic anhydride, and phosphorous pentoxide. - Dilution with water evolves large quantity of heat. <p>Hazardous decomposition & combustion product = none Hazardous polymerization will not occur.</p>
<p>10. Toxicological Information</p>
<p>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.</p> <p>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.</p>
<p>11. Ecological Information</p>
<p>Ecotoxicity: High basicity may pose potential hazard to plant and marine life.</p>
<p>12. Disposal Considerations</p>
<p>Dispose of in accordance with all Government and Local regulations.</p>
<p>13. Transport Information</p>
<p>Transportation of Dangerous Goods TDG Classification: Do not ship by air. DOT Hazard Classification: Class 8 : Corrosive DOT Shipping Name : Sodium Hydroxide ID: UN1824</p>
<p>14. Regulatory and other Information</p>
<p>OSHA Hazards : Corrosive liquid, Indian standards : corrosive liquid(class 8) .</p>

*THE INFORMATION CONTAINED HEREIN IS PRESENTED IN GOOD FAITH
AND BELIEVED TO BE CORRECT AS OF THE DATE ISSUED*