

MATERIAL SAFETY DATA SHEET***151****SODIUM HYDROXIDE SOLUTIONS, 1% - 50% W/W****SODIUM HYDROXIDE 0.01N - 10N**

Cat # LC23950, LC24000, LC24040, LC24060, LC24070, LC24090, LC24100, LC24120, LC24140, LC24150,
LC24200, LC24220, LC24230, LC24250, LC24270, LC24280, LC24300, LC24310, LC24320, LC24330,
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SECTION I

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SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

NAME: SODIUM HYDROXIDE SOLUTIONS, 1%-50% W/W, SODIUM HYDROXIDE 0.01N-10N

SYN: (solutions of -) caustic soda, soda lye, lye, white caustic.

DOT- Sodium Hydroxide Solutions: CORROSIVE MATERIAL UN 1824

COMPONENTS:

(1) sodium hydroxide, 0.04% - 50%
(2) water, balance

CAS:
1310-73-2
7732-18-5

FORMULA/F.WT.
NaOH / 40.00
H2O / 18.00

NFPA RATING (0-4): Health-3 Fire-0 Reactivity-1

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling pt:	melting pt:	Sp. gravity:	Evaporation rate:	Vapor press/ Vapor density:	pH:
n/a	n/a	> 1	n/a	n/a	alkaline

Appearance/Odor: clear colorless liquid /odorless.

Solubility: water - completely soluble.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash pt: non-flammable Explosion level-lower(LEL): n/a -upper(UEL): n/a Autoignition: n/a

Extinguishing Media: dry chemical, carbon dioxide, water spray or foam.

Firefighting: negligible fire and explosion hazard when exposed to heat or flame. Move containers if possible, cool with water spray. Avoid breathing corrosive vapors. Large fires, use flooding quantities of water.

SECTION V - REACTIVITY DATA

Stability: stable at normal temperatures and pressures. Material is a strong base, react exothermically with water - corrosive fumes of sodium hydroxide may be released.

Condition to Avoid: incompatibilities - reacts violently or explosively with acetaldehyde, acrolein, acrylonitrile, allyl alcohol, aluminum, chloride trifluoride, chloronitrobenzenes, halogenated hydrocarbons, maleic anhydride, metals, nitromethane, nitroparaffins, nitropropane, phenol, (3-methyl-2-pentene-4-yn-1-ol) pentol, phosphorus pentoxide, tetrachlorobenzene/methyl alcohol, tetrahydrofuran, trichloroethylene.

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tion/Byproducts: may release toxic fumes of sodium oxide (which can react with water or
 and flammable hydrogen vapors).

ation: not known to occur.

TH HAZARD DATA

oxide solution is an irritant and corrosive to eye, skin, and mucous membranes. LD50:
 Mutagenic data RTECS.

e reported.

ACGIH-TWA:	-STEL:	TLV CEILING:	IDLH:	OTHER:
2mg/M3	n/a	2mg/M3	200mg/M3	NIOSH 2mg/M3 15min cell.

s: effects vary from mild irritation to severe pneumonitis, sore throat, dyspnea, burns. Eye
 n varied degrees of damage to conjunctiva and cornea leading to edema, ulceration, vision
 ation). Ingestion can result in pain, tissue corrosion of mouth, throat, stomach and intestinal
 n throat swelling) and perforation. Latent carcinoma is thought to result from tissue
 tissue formation. Temporary loss of hair.

ds: bronchial irritation or pneumonia, gastrointestinal disturbance, conjunctivitis, dermatitis

e victim to fresh air immediately, give artificial respiration if needed. Keep victim warm, at
 id at once.

ntaminated clothing, wash affected area with soap and water. Flush with large amounts of
 until chemical is gone. Burns - apply sterile bandage (secure, not tight). Get medical aid.

ely flush with large amounts of water, lifting upper/lower lids occasionally (15-20min.) until
 et medical aid at once.

conscious victim water or milk immediately to dilute alkali, allow vomiting to occur. Do not
 esis) or use gastric lavage. Medical personnel may do esophagoscopy, irrigate injured area
 to neutralized alkali. (Dreisbach, Handbook of Poisoning, 11th. Ed.). Get medical aid at once.

CAUTION FOR SAFE HANDLING AND USE

tain spill if possible, absorb with sand or inert absorbent, scoop into labeled disposal container..
 utralized to pH 7 with citric acid or other suitable neutralizing agent.

a accordance with Federal, State, and local regulations.

ng: store at room temperature, protect from heat, moisture, incompatible substances especially
 r poisonous gases may accumulate in storage.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: provide local exhaust to meet Permissible Exposure Limits (PELs required in normal use) 100mg/m³ - HiEPF/SAF/SCBAF. 200mg/m³ - PAPHiEF/SAF: DMXSF/SCBAF. (Respirator Codes: DHEW (NIOSH) Publication No. 78-210)

Protective Clothing and Equipment: wear alkali resistant protective clothing, gloves, etc. Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when handling chemicals.

Information in this MSDS is from available published sources and is believed to be accurate. LabChem Inc. assumes no liability resulting from the use of this information for his application.

[Note: n/a means "not applicable" or data "not available".]