

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 01/07/2003

MSDS No: S390-4LITER

1. PRODUCT AND COMPANY IDENTIFICATION**PRODUCT DESCRIPTION:** Sodium Hydroxide Solution, 4 Liter container**PRODUCT CODE:** S390-4LITER**MANUFACTURER**

Hudson Supply Company
 4500 Lee Rd
 Cleveland, OH 44128-2959
Customer Service: (800) 486-0480

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: (800) 424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>
Water	98	7732-16-5
Sodium Hydroxide	>2	1310-73-2

COMPONENTS :**EXPOSURE LIMITS**

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Supplier</u>
Water			
Sodium Hydroxide	2 mg/m ³	2 mg/m ³	

3. HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS****EYES:** Dangerous**SKIN:** May cause significant irritation to the skin.**INGESTION:** Dangerous**INHALATION:** Irritant**ACUTE EFFECTS:** Irritation to dangerous. Sodium Hydroxide is very destructive to human tissue.**SUBCHRONIC/CHRONIC TOXICITY****CHRONIC:** Not Listed

CARCINOGENICITY: Not Listed by NTP
 Not listed by IARC

Not listed by OSHA

MEDICAL CONDITIONS AGGRAVATED: None Expected.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for two to three minutes. Remove any contact lenses and continue flushing for 15 minutes. Get medical attention.

SKIN: Wash thoroughly with soap and water.

INGESTION: Induce vomiting. dilute with water. Never give anything by mouth to anyone who is unconscious or convulsing. Get medical attention.

INHALATION: Remove individual to fresh air. Keep person calm. If breathing is difficult, administer oxygen and get proper medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: N/A to N/A

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE CLASS: 0

EXTINGUISHING MEDIA: Any media for the surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: None known.

FIRE FIGHTING PROCEDURES: Keep people away. Isolate fire area and deny unnecessary entry. Contain fire water run-off if possible. Fire water runoff, if not contained may cause enviromental damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire.

FIRE FIGHTING EQUIPMENT: Fire fighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Cover with dry earth, dry sand, or non-combustible material followed by plastic sheet to minimize spreading.

LARGE SPILL: Dike far ahead of the spill. Cover with dry earth, sand, or non-combustible material.

7. HANDLING AND STORAGE

HANDLING: Wear safety glasses, goggles, or face shield, safety gloves, personal protective clothing, or respirator as required in section 8 of this MSDS.

STORAGE: Store in unopened containers under cool and dry conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient local exhaust and general ventilation to maintain exposure below PEL(s), especially for spraying operations which produce mists.

PERSONAL PROTECTION

EYES AND FACE: Wear safety glasses with side shields or goggles when handling this material.

SKIN: To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

RESPIRATORY: Use NIOSH/MSHA approved air supplied respirator in absence of proper environmental control.

WORK HYGIENIC PRACTICES: Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Acidic odor

APPEARANCE: Clear

COLOR: Colorless

pH: Not Applicable

PERCENT VOLATILE: Not Applicable

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

BOILING POINT: 100°C

FREEZING POINT: Not Applicable

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE: Not Applicable

DENSITY: Not Applicable

SPECIFIC GRAVITY: 1 (water=1)

VISCOSITY: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Reacts exothermically with water.

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION: Corrosive and/or toxic gases

INCOMPATIBLE MATERIALS: Acids, strong oxidizers, most metals

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: This material may cause significant irritation to the eyes.

SKIN EFFECTS: This material may cause significant irritation to the skin.

CARCINOGENICITY:

IARC: Not listed by IARC

NTP: Not Listed by NTP

OSHA: Not listed by OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Applicable

ECOTOXICOLOGICAL INFORMATION: Not Applicable

CHEMICAL FATE INFORMATION: Not Applicable

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: In compliance with Federal, State and local regulations for landfills.

FOR LARGE SPILLS: May be flushed to drain.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Sodium Hydroxide Solution

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1824

PACKING GROUP: II

LABEL: Corrosive

COMMENTS: Not regulated as a hazardous material.

15. REGULATORY INFORMATION

GENERAL COMMENTS: EPA Regulation:

RCRA hazardous waste number: Not listed
RCRA hazardous waste classification (40 CFR 261.??): Not classified.
CERCLA hazardous substance: listed
CERCLA Reportable Quantity (RQ)
SARA 311/312 Codes:
SARA Toxic Chemical (40 CFR 372.65):
SARA EHS: Not listed
Threshold Planning Quantity (TPQ): listed
OSHA Regulations: Air contaminant
OSHA Specifically Regulated Substance (29 CFR 1910.1000): listed
State Regulations: STCC listed.
DOT (40 CFR 172.101 Append.):
ACGIH Threshold Limit Value:
MAK: Not listed
TSCA: Not listed
ANNEX I: Not listed

16. OTHER INFORMATION

APPROVED BY: David C. Dillon **TITLE:** Systems Administrator

APPROVAL DATE: 01/07/2003

REVISION SUMMARY New MSDS

NFPA CODES

FIRE: 0 **HEALTH:** 3 **REACTIVITY:** 0

MANUFACTURER DISCLAIMER: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.