


## Section 1: Identification

<b>Common Name/Trade Name</b>	SODIUM HYDROXIDE NF	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	Caustic soda; lye; sodium hydroxide solid; sodium hydrate	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Corrosive to metals (Category 1), Acute toxicity - Oral (Category 4), Acute dermal toxicity (Category 4), Skin corrosion/irritation (Category 1/Category 1A), Serious eye damage/eye irritation (Category 1), Specific organ toxicity (single exposure) Category 1)	
<b>Signal Word</b>	Danger	
<b>Hazard Statement(s)</b>	H290 H302 H312 H314 H370	May be corrosive to metals Harmful if swallowed Harmful in contact with skin Causes severe skin burns and eye damage Causes damage to organs
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P260 P264 P270 P280 P301+P330+P331 P301+P312 P302+P352 P303+P361+P353 P304+P340 P305+P351+P338 P307+P311 P310 P312 P330 P334 P363 P390 P405 P406 P501	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED Rinse mouth. Do NOT induce vomiting. IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN Wash with soap and water. IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. IF exposed Call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Immerse in cool water/wrap in wet bandages. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in a corrosive resistant container with a resistant inner liner. Dispose of contents/container to an approved waste disposal plant.
<b>Hazards Not Otherwise Classified</b>	No data available	
<b>Ingredient(s) with Unknown Toxicity</b>	No data available	

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Sodium Hydroxide
<b>Common Name</b>	Sodium hydroxide
<b>CAS Number</b>	1310-73-2
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	Immediate medical attention is required.
<b>If Inhaled</b>	Move to fresh air. Call a physician or poison control center immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
<b>In Case of Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
<b>In Case of Eye Contact</b>	Keep eye wide open while rinsing. Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area.
<b>If Swallowed</b>	Rinse mouth. Immediate medical attention is required.
<b>Most Important Symptoms and Effects</b>	Note to Physicians: Treat symptomatically. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Self-protection of the First Aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Special Hazards Arising From the Substance/Mixture</b>	Not considered to be an explosion hazard. Not considered to be a fire hazard. The product causes burns of eyes, skin and mucous membranes, Thermal decomposition can lead to release of irritating and toxic gases and vapors, In the event of fire and/or explosion do not breathe fumes
<b>Special PPE and/or Precautions for Firefighters</b>	In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.
<b>Methods and Materials Used for Containment</b>	Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Should not be released into the environment.
<b>Cleanup Procedures</b>	Dam up. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Avoid creating dust. Take up mechanically, placing in appropriate containers for disposal. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Use personal protective equipment as required.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	AUse personal protective equipment as required. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Use only with adequate ventilation.
<b>Conditions for Safe Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials: Strong acids and bases; Oxidizing agents; Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may cause violent reactions, Nitromethane and other similar compounds, aluminum, magnesium, tin, and zinc

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Sodium Hydroxide, ACGIH TLV: Ceiling: 2 mg/m <sup>3</sup> , OSHA PEL: 2 mg/m <sup>3</sup> Ceiling 2 mg/m <sup>3</sup> TWA, Ontario TWA: CEV: 2 mg/m <sup>3</sup> . China: Ceiling: 2 mg/m <sup>3</sup> Ceiling, Japan: Ceiling: 2 mg/m <sup>3</sup> , Korea: Ceiling: 2 mg/m <sup>3</sup> , Australia: Ceiling: 2 mg/m <sup>3</sup> Peak, Taiwan: TWA: 2mg/m <sup>3</sup> . Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)
<b>Appropriate Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Wash contaminated clothing before reuse.
<b>PPE - Eye/Face Protection</b>	Tight sealing safety goggles. Face protection shield
<b>PPE - Skin Protection</b>	Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Gloves made of plastic or rubber.
<b>PPE - Body Protection</b>	Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Gloves made of plastic or rubber.
<b>PPE - Respiratory Protection</b>	Tight sealing safety goggles. Face protection shield.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Physical State: Solid. Appearance: Deliquescent pellets or flakes. Color: White.
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	Negligible
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	1.38 - (Air = 1.0)
<b>pH</b>	13.5 0.5% solution
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	Melting point/range: 318 °C (604 °F) - lit.
<b>Solubility</b>	Water solubility 111g/100g of water
<b>Initial Boiling Point and Boiling Range</b>	1,390 °C (2,534 °F)
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Possibility of Hazardous Reactions: Contact with nitromethane and other similar compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry
<b>Chemical Stability</b>	Stable under normal conditions of use and storage
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Exposure to air or moisture over prolonged periods
<b>Incompatible Materials</b>	Strong acids and bases, Oxidizing agents, Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may cause violent reactions, Nitromethane and other similar compounds, aluminum, magnesium, tin, and zinc
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	1350 mg/kg ( Rabbit )
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	Target Organ Effects: Eyes
<b>Skin Corrosion/Irritation</b>	Target Organ Effects: Skin
<b>Serious Eye Damage/Irritation</b>	Target Organ Effects: Eyes
<b>Respiratory or Skin Sensitization</b>	Target Organ Effects: Respiratory system, Skin
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
<b>Carcinogenicity ACGIH</b>	No data available
<b>Carcinogenicity NTP</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
<b>Carcinogenicity OSHA</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	0.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment: 45.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static
<b>Persistence and Degradability</b>	No information available
<b>Bio-accumulative Potential</b>	No information available
<b>Mobility in Soil</b>	No information available
<b>Other Adverse Effects</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations
<b>Waste Treatment Methods Packaging</b>	Do not reuse container.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	1823
<b>UN Proper Shipping Name</b>	Sodium hydroxide, solid
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	II
<b>Environmental Hazards</b>	No data available

## Section 15: Regulatory Information

International Inventories All of the components in the product are on the following Inventory lists: TSCA (United States); Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL); China (IECSC), ENCS (Japan); Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only. AICS Complies TSCA Complies DSL/NDSL Complies EINECS/ELINCS Complies ENCS Complies IECSC Complies KECL Complies PICCS Complies. AICS TSCA DSL NDSL EINECS ELINCS ENCS IECSC KECL PICCS Sodium Hydroxide Listed Listed Listed - Listed - (2)-1972 (1)-410 Listed KE-31487 Listed. Inventory Legend AICS - Australian Inventory of Chemical Substances TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances RESTRICTIONS - REACH TITLE VII No information available US Federal Regulations CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) Chemical Name CERCLA Hazardous Substances and the Reportable Quantities SARA Extremely Hazardous Substances EPCRA RQ SARA Extremely Hazardous Substances TPQ Sodium Hydroxide 1000 lb 454 kg SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372 SARA 311/312 Hazard Categories Acute health hazard Yes Chronic health hazard No Fire hazard No Sudden release of pressure hazard No Reactive hazard Yes U.S. State Right-to-Know Regulations California Proposition 65: This product does not contain any Proposition 65 chemicals

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Lisa Russell
<b>Revision Date</b>	01/09/2019 16:38

### Disclaimer

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