

Section 1: Identification			
Common Name/Trade Name	SODIUM HYDROXIDE NF		
Supplier Information	<table border="0"> <tr> <td>Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693</td> <td>IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)</td> </tr> </table>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
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Product Synonym(s)	Caustic soda; lye; sodium hydroxide solid; sodium hydrate		
Relevant Use(s) of Product	Manufacture or Compounding of Substances		

Section 2: Hazards Identification																																									
Classification of Substance or Mixture	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)																																								
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Hazards Not Otherwise Classified	No data available																																								
Ingredient(s) with Unknown Toxicity	No data available																																								

Section 3: Composition/Information on Ingredients	
Chemical Name	Sodium Hydroxide
Common Name	Sodium hydroxide
CAS Number	1310-73-2
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Immediate medical attention is required.
If Inhaled	Move to fresh air. Call a physician or poison control center immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
In Case of Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
In Case of Eye Contact	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.
If Swallowed	Rinse mouth. Immediate medical attention is required.
Most Important Symptoms and Effects	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

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Special Hazards Arising From the Substance/Mixture	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
Special PPE and/or Precautions for Firefighters	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

Personal Precautions, Protective Equipment and Emergency Procedures	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.
Methods and Materials Used for Containment	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.
Cleanup Procedures	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

Precautions for Safe Handling	Use 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.
Conditions for Safe Storage	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

Components with Workplace Control Parameters	Sodium Hydroxide, ACGIH TLV: Ceiling: 2 mg/m ³ , OSHA PEL: 2 mg/m ³ Ceiling 2 mg/m ³ TWA, Ontario TWA: CEV: 2 mg/m ³ . China: Ceiling: 2 mg/m ³ Ceiling, Japan: Ceiling: 2 mg/m ³ , Korea: Ceiling: 2 mg/m ³ , Australia: Ceiling: 2 mg/m ³ Peak, Taiwan: TWA: 2mg/m ³ . Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)
Appropriate Engineering Controls	Ensure adequate ventilation, especially in confined areas. Wash contaminated clothing before reuse.
PPE - Eye/Face Protection	Tight sealing safety goggles. Face protection shield
PPE - Skin Protection	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.
PPE - Body Protection	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.
PPE - Respiratory Protection	Tight sealing safety goggles. Face protection shield.

Section 9: Physical and Chemical Properties

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

Section 10: Stability and Reactivity

Reactivity	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
Chemical Stability	Stable under normal conditions of use and storage
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Exposure to air or moisture over prolonged periods
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
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating and toxic gases and vapors

Section 11: Toxicological Information

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

Section 12: Ecological Information

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

Section 13: Disposal Considerations

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

Section 14: Transport Information

UN Number	1823
UN Proper Shipping Name	Sodium hydroxide, solid
Transport Hazard Class(es)	8
Packaging Group	II
Environmental Hazards	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)-4 10 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

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

Disclaimer

Letco Medical, LLC believes that the above information is correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.