



**SHINTECH**

## SAFETY DATA SHEET

# SODIUM HYDROXIDE, 50%

Issue Date: 01/10/2011

Reviewed Date: 11/15/2022

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Manufacturer:</b>	<b>Shintech Louisiana, LLC</b> 3 Greenway Plaza, Suite 1150 Houston, TX 77046 (713) 965-0713
<b>PRODUCT NAME:</b>	Sodium Hydroxide Solution, 50%
<b>CAS#:</b>	1310-73-2
<b>CHEMICAL FORMULA:</b>	NaOH(50)
<b>Synonyms</b>	Caustic Soda Liquid 50%, Soda Lye, Lye, Liquid Caustic, Sodium Hydrate
<b>Product Use:</b>	Neutralizing agent, industrial cleaner, pulping and bleaching, soap manufacturing

For information regarding a chemical emergency involving a spill or leak, call:

**24 — Hour Emergency Contact:**

**U.S.: 1-800-424-9300 — CHEMTREC**

### SECTION 2 — HAZARDS IDENTIFICATION

#### Global Harmonization System (GHS) Classification:

- Category 1** Corrosive to metals
- Category 1** Skin corrosion/irritation
- Category 1** Serious eye damage/eye irritation
- Category 3** Hazardous to the aquatic environment, long-term (chronic) hazard
- Category 4** Acute toxicity, inhalation
- Category 4** Acute toxicity, oral



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### National Fire Protection Association (NFPA) Rating Hazardous Materials Identification Systems (HMIS) Rating

	NFPA	HMIS
Health	3	3
Fire	0	0
Reactivity	1	1

4 = Extreme/Severe    W – Water Reactive

3 = High/Serious

2 = Moderate

1 = Slight

0 = Minimum

**DANGER!** Causes severe eye burns. Causes severe skin burns. Avoid contact with skin and eyes. Causes burns of the mouth and throat. Causes respiratory tract irritation. Avoid breathing vapors or mist. Aspiration hazard. Can enter lungs and cause damage. May react with water. Keep upwind of spill and use in adequate ventilation.

### Emergency Overview:

Color:	Colorless
Odor:	Odorless
Physical State	Liquid above freezing point
Signal Word	DANGER

### GHS Label Elements:



### GHS Hazard Statements:

- H290 - May be corrosive to metals
- H314 – Causes severe skin burns and eye
- H318 – Causes serious eye damage
- H412 – Harmful to aquatic life with long lasting effects
- H332 – Harmful if inhaled
- H302 – Harmful if swallowed



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### GHS Precautionary Statements:

**Storage:** Keep container closed.  
Keep in original container.  
Store in a secure manner.

**Ventilation Controls:** Do not breathe (dust, vapor or spray mist).

**Hygiene Measures:** When using, do not smoke, eat, or drink.  
Wash thoroughly after handling.  
Avoid contact with skin and eyes.

**Personal Protective Equipment:** Wear suitable protective clothing, gloves, and eye/face protection.

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**Spills:** **NEVER** direct water jet on liquid.  
Dike the area to contain the spill.  
Collect in suitable and properly labeled containers.  
Attempt to neutralize by adding material such as Acetic acid.

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**First Aid (See Section 4):** In case of accident by inhalation, move person to fresh air.  
If swallowed, do not induce vomiting: seek medical advice immediately and show label to doctor.  
After contact with skin, immediately take off all contaminated clothing and wash immediately with plenty of water.  
In case of contact with eyes, rinse immediately with plenty of water.  
In all cases, if irritation develops and persists, get medical attention.  
In all cases, call a poison control center or doctor for further treatment advice.

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**Environmental Protection:** Use appropriate containment to avoid environmental contamination.

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**Disposal:** Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

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### POTENTIAL HEALTH EFFECTS:

#### EYE CONTACT

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Mist may cause eye irritation.

**Short Term Exposure**

**Long Term Exposure:**

#### SKIN CONTACT

Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

#### SKIN ABSORPTION

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

#### INHALATION:

Mist may cause severe irritation of upper respiratory tract (nose and throat). May cause chemical burns to the respiratory tract.

#### INGESTION

Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation, ulceration, nausea and/or vomiting. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

#### CONDITIONS AGGRAVATED BY EXPOSURE

Respiratory disorders, pre-existing skin disorders, eye/vision disorders.

#### TARGET ORGANS EFFECTED:

Skin, Eyes, Respiratory System.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients (specific)	Typical %	CAS Number	EC Number
Water	50	7732-18-5	7732-18-5
Sodium Hydroxide	50	1310-73-2	7732-18-5
Sodium Chloride	< 1	7647-14-5	231-598-3

#### Common Names/Synonyms:

Caustic Soda Liquid 50%, Soda Lye, Lye, Liquid Caustic, Sodium Hydrate



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### SECTION 4 – FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with water for at least 30 minutes, and up to 60 minutes if necessary. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY. Do not transport victim until the recommended flushing period is completed unless flushing can be continued during transport.

**Skin Contact:** Immediately flush skin with water for at least 30 minutes, and up to 60 minutes if necessary. Under water remove contaminated clothing, jewelry, and shoes. If irritation persists, repeat flushing. Obtain medical attention immediately. Handle contaminated clothing and shoes in a manner which limits further exposure.

**Ingestion:** DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth and give as much water as possible to dilute material (8 to 10 oz. or 240 to 300 mL). If spontaneous vomiting occurs, have victim lean forward with head down, rinse mouth and administer more water. IMMEDIATELY transport victim to an emergency facility. Do not give anything to an unconscious person.

**Inhalation:** Move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. Give artificial respiration ONLY if breathing has stopped. Do not use mouth-to-mouth method if victim ingested or inhaled the substance: induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention IMMEDIATELY. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

### SECTION 5 – FIRE FIGHTING MEASURES

**Extinguishing Media:** This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire. Do not use water jet.

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Remove containers from fire, if possible, and cool containers with water. When material comes in contact with water, large amounts of heat may be generated and ignite adjacent combustible materials. **This material does not burn.** Fight fire for other material that is burning.



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**Special  
Protective  
Equipment for  
Firefighters:**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

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**Unusual Fire and  
Explosion  
Hazards:**

Product reacts with water. Reaction may produce heat and/or gases. This reaction may be violent. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

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**Hazardous  
Combustion  
Products:**

Not applicable.

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### SECTION 6 – ACCIDENTAL RELEASE MEASURES

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**Steps to be  
taken if material  
is released or  
spilled:**

Contain spilled material if possible. Small spills: Dilute with water and neutralize with dilute acid; absorb and collect. Large spills: Dike the area to contain the spill. Collect in suitable and properly labeled containers. Attempt to neutralize by adding material such as Acetic acid. See Section 13, Disposal Considerations, for additional information.

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**Personnel  
Precautions:**

Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. Ventilate area of leak or spill. See Section 10 for more specific information. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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**Environmental  
Precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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### SECTION 7 – HANDLING AND STORAGE

**Handling:** Do not get in eyes. Do not get on skin or clothing. Do not swallow. Avoid breathing mist. Keep container closed. Use with adequate ventilation.

1. ALWAYS add caustic soda solution to water with constant agitation. NEVER add water to the caustic soda solution.
2. The water should be lukewarm (27°-38°C or 80°-100°F). NEVER start with hot or cold water. The addition of the caustic soda to liquid will cause a rise in temperature. If caustic soda becomes concentrated in one area, is added too rapidly, or is added to hot or cold liquid, a rapid temperature increase can result in DANGEROUS mists, boiling or spattering which may cause an immediate VIOLENT ERUPTION. See Section 8, Exposure Controls and Personal Protection.

**Storage:** Keep container closed. Do not store in: Zinc, Aluminum, Brass, or Tin. See Section 10 for more specific information.

**Storage temperature:** >16°C

**Shelf life:** Use within 24 months

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Preventive Measures:** Recommendations listed in this section indicate the type of equipment which will provide protection against over exposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

**Engineering Controls:** Local exhaust ventilation should be applied wherever there is an incidence of point source emissions or dispersion of regulated contaminants in the work area. Ventilation control of the contaminant as close to its point of generation is both the most economical and safest method to minimize personnel exposure to airborne contaminants. The most effective measures are the total enclosure of processes and the mechanization of handling procedures to prevent all personal contact.



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### Personal Protective Equipment:

Maintain eye wash station and safety shower facilities in work area. Detailed requirements for personal protective equipment should be established on a site-specific basis.

#### Eye/Face Protection:

Wear full face-shield and chemical safety goggles when there is potential for contact.

#### Skin/Body Protection:

Wear appropriate personal protective clothing to prevent skin contact that is chemically resistant to this material. Wear rubber boots and chemical resistant gloves. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse or dispose of properly.

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### Respiratory Protection:

Up to 10mg/m<sup>3</sup>: Supplied Air Respirator (SAR) operated in a continuous-flow mode, eye protection needed; or full face-piece respirator with high-efficiency particulate filter(s); or powered air-purifying respirator with dust and mist filter(s), eye protection needed; or full face-piece Self-Contained Breathing Apparatus (SCBA); or full face-piece SAR.

Emergency or Planned Entry into Unknown Concentrations of IDLH Conditions: Positive pressure, full face-piece SAR; or positive pressure, full face-piece SAR with an auxiliary positive pressure SAR.

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### Guidelines for Sodium Hydroxide Solutions, 30-70%:

**RECOMMENDED** (resistance to breakthrough longer than 8 hours): Butyl rubber; natural rubber, neoprene rubber, nitrile rubber, polyethylene, polyvinyl chloride, Teflon(TM), Viton(TM), Saranex(TM), 4H(TM), Barricade(TM), CPF 3(TM), Responder(TM), Trelchem HPS(TM), Tychem 10000(TM).

**NOT RECOMMENDED** for use (resistance to breakthrough less than 1 hour): Polyvinyl alcohol.

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### Escape:

Full face-piece respirator with high-efficiency particulate filter(s); or escape-type SCBA.

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### Exposure Guidelines:

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**PRODUCT: Sodium hydroxide**

ACGIH Ceiling Exposure Limit (TLV-C): 2mg/m<sup>3</sup>

OSHA PEL-TWA & PEL-C: 2mg/m<sup>3</sup>

NIOSH IDLH: 10mg/m<sup>3</sup>

NIOSH REL-C: 2mg/m<sup>3</sup>

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid above freezing point
<b>Physical Form</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No data available
<b>Flash Point – Closed Cup</b>	None
<b>Flammable Limits in Air</b>	Lower: Not applicable Upper: Not applicable
<b>Autoignition Temperature</b>	Not applicable
<b>Vapor pressure</b>	1.5 mmHg @ 20°C <i>Literature</i>
<b>Boiling Point (760 mmHg)</b>	145°C (293°F) <i>Literature</i>
<b>Vapor Density (air=1)</b>	Not applicable
<b>Specific Gravity (H2O=1)</b>	1.52 <i>Literature</i>
<b>Liquid Density</b>	1.5 g/cm <sup>3</sup> @ 20°C <i>Literature</i>
<b>Freezing Point</b>	14°C (57°F) <i>Literature</i>
<b>Melting Point</b>	14°C (57°F) <i>Literature</i>
<b>Solubility in Water (by weight)</b>	Water solution
<b>pH</b>	Strong Basic
<b>Evaporation Rate</b>	No data available
<b>Partition Coefficient n-octanol/water</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Molecular Weight</b>	40 g/mol
<b>Volatility</b>	No data available
<b>Kinematic Viscosity</b>	0.35 St @ 25° <i>Calculated</i>

\* This data is based on 50% Caustic

**SECTION 10 – STABILITY AND REACTIVITY****Stability/Instability:**

Stable under recommended storage conditions. See Storage, Section 7.

**Conditions to avoid:**

Avoid moisture. Product absorbs carbon dioxide from the air. Avoid mixing with water, strong acids, or other incompatible materials. Will react with some metals and create a flammable hydrogen gas.

**Incompatible Materials:**

Heat is generated when mixed with water. Spattering and boiling can occur. Caustic soda solution reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce CO. Take precautions including monitoring the tank atmosphere for CO to ensure safety of personnel before vessel entry. Avoid contact with:

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acids, glycols and halogenated organics. Organic nitro compounds. Flammable hydrogen may be generated from contact with metals such as: Zinc, Aluminum, Tin, or Brass.

**Hazardous Polymerization:** Will not occur.

**Thermal Decomposition:** Does not decompose.

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Acute Toxicity:**           **Ingestion:** Single dose oral LD50 has not been determined.

**Skin Absorption:** The dermal LD50 has not been determined.

The severity of injury depends on the concentration and duration of exposure to the substance. This material is toxic to the skin, eyes, and mucous membranes. It may cause destructive effects on tissues that it contacts. Inhalation will cause irritation to the respiratory tract and difficulty breathing. Eye contact will cause irritation and may cause severe burns and possible blindness. Contact with skin will cause irritation and may cause corrosion of the tissue.

**Repeated Dose Toxicity:** Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Genetic Toxicology:** For the major component(s): In vitro genetic toxicity studies were negative.

**Carcinogenicity:** Not a known carcinogen.

### SECTION 12 – ECOLOGICAL INFORMATION

#### Fate and Transport:

**Sodium Hydroxide:**

**Movement**

No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50).



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**Persistence and Degradability** Biodegradation is not applicable.

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**Sodium Chloride: Movement** No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50).

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**Persistence and Degradability** Biodegradation is not applicable.

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### Ecotoxicity:

**Sodium Hydroxide:** Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). May increase pH of aquatic systems to >pH 10 which may be toxic to aquatic organisms.

**Fish Acute & Prolonged Toxicity** LC50, rainbow trout (*Oncorhynchus mykiss*), 96h: 45.5 mg/L

**Aquatic Invertebrate Acute Toxicity** LC50, water flea *Daphnia magna*: 40-240 mg/L

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**Sodium Chloride:** Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in the most sensitive species tested).

**Fish Acute & Prolonged Toxicity** LC50, fathead minnow (*Pimephales promelas*): 10,610 mg/L

**Aquatic Invertebrate Acute Toxicity** LC50, water flea *Daphnia magna*: 4,571 mg/L

## SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable Federal, State/Provincial and local laws and regulations. Waste characterization and compliance with applicable laws and regulations are the responsibility of the waste generator. Do not dispose of waste with normal garbage, or to sewer systems.

**SHINTECH LOUISIANA, LLC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR**

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USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION.

**SECTION 14 – TRANSPORT INFORMATION**

U.S. DOT 49 CFR 172.101:

	<b>BULK / NON BULK</b>
Shipping Name	SODIUM HYDROXIDE SOLUTION
Hazard Class/Division	8
Identification No.	UN1824
Packing Group	PG II
DOT RQ (lbs)	RQ 1000 lbs. (Sodium Hydroxide)

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

**SECTION 15 – REGULATORY INFORMATION****USA Classification**

**OSHA Hazard Communication Standard:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	Yes
Sudden Release of Pressure Hazard	No
OSHA Process Safety (29CFR1910.119)	No
CERCLA Section 103 (40CFR302.4)	Yes



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Reportable Quantity (RQ) under CERCLA	1,000 lbs. (454kg)
TSCA Inventory Status	Yes

This product does not contain nor is it manufactured with ozone depleting substances

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Sodium Hydroxide	1310-73-2	<=51.0%

### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### US Toxic Substances Control Act:

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 710.30.

### CEPA – Domestic Substances List (DSL):

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All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

<b>Immediate (Acute) Health Hazard</b>	Yes
<b>Delayed (Chronic) Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Reactive Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>OSHA Process Safety (29CFR1910.119)</b>	No
<b>CERCLA Section 103 (40CFR302.4)</b>	Yes
<b>Reportable Quantity (RQ) under CERCLA</b>	1,000 lbs. (454kg)
<b>TSCA Inventory Status</b>	Yes

This product does not contain nor is it manufactured with ozone depleting substances.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

<b>Component</b>	<b>CAS #</b>	<b>Amount</b>
Sodium Hydroxide	1310-73-2	<=51.0%

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**

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This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### US Toxic Substances Control Act:

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 710.30

### CEPA – Domestic Substances List (DSL):

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

## SECTION 16 – OTHER INFORMATION

**IMPORTANT:** The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. **NO WARRANTY OF MERCHANT ABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SUITABILITY, STABILITY OR OTHERWISE.** The information included herein is not intended to be all-inclusive as to the appropriate manner and/or conditions of use, handling and/or storage. Factors pertaining to certain conditions of storage, handling, or use of this product may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended to, and nothing herein shall be construed as a recommendation to, infringe any existing patents or violate any laws, rules, regulations or ordinances of any governmental entity.

*Shintech Louisiana, LLC urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as to the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.*



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### Revisions:

- January 2011 - no information changed in this MSDS. This MSDS was reviewed for accuracy.
- April 2014 – The MSDS was updated to follow new Global Harmonization Guidelines. The MSDS are now called Safety Data Sheets (SDS).
- January 2016 – Corrections to improve nomenclature and technical data.
- February 2020 – No information changed in this SDS. This SDS was reviewed for accuracy.
- July 2022 – Section 2 was updated to include the GHS Classification Category 1 – Corrosive to Metals and Category 4 – Acute toxicity - inhalation. Section 2 - GHS Hazard Statements have been revised to indicate that this material is harmful if inhaled.
- November 2022 – Section 2 GHS Classifications and Hazard Statements updated.

*SDS Status:*                      *Revision Date:*                      11/15/2022  
*Supersedes:*                      08/01/2022