

## SAFETY DATA SHEET



Date Prepared : 11/02/2015

SDS No : 1310732

## Caustic Soda, 50%

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Caustic Soda, 50%

PRODUCT CODE: 1310732

## MANUFACTURER

JOHN-HENRY Enterprises, Inc.

2813 Richland Ave

Metairie, LA 70002

Emergency Contact: H. Zeller

Emergency Phone: 504-888-8989

## 24 HR. EMERGENCY TELEPHONE NUMBERS

US/Canada: 800-535-5053

## 2. HAZARDS IDENTIFICATION

## GHS CLASSIFICATIONS

## Health:

Acute Toxicity (Oral), Category 4

Skin Corrosion, Category 1

Serious Eye Damage, Category 1

## Physical:

Corrosive to Metals, Category 1

## GHS LABEL



Irritant



Health hazard



CORROSIVE

SIGNAL WORD: DANGER

## HAZARD STATEMENTS

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H370: Causes damage to organs

H290: May be corrosive to metals.

## PRECAUTIONARY STATEMENTS

## General:

P102: Keep out of reach of children.

P103: Read label before use.

## Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P363: Wash contaminated clothing before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

28042MX6: IF SWALLOWED: Immediately call a POISON CENTER or doctor immediately. Rinse mouth. Do NOT induce vomiting.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

## Response:

P390: Absorb spillage to prevent material damage.

**Disposal:**

P501: Dispose of contents/container to approved waste disposal plant

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Causes severe irritation and burns to skin. Causes severe irritation, burns, and damage to eyes. Mists and vapors can cause irritation to eyes, nose, throat, and respiratory tract. Ingestion can damage mouth, throat, and other tissues and may be fatal.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Corrosive to the eyes and may cause severe damage including tissue destruction and/or blindness.

**SKIN:** Corrosive, causes skin burns and severe irritation

**INGESTION:** Causes irritation, burns, and damage to mouth, throat, esophagus, and stomach. May be fatal if swallowed.

**INHALATION:** Mists or sprays can be moderately to severely irritating to eyes and respiratory tract.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Sodium Hydroxide	49 - 51	1310-73-2
Water	49 - 51	7732-18-5

**4. FIRST AID MEASURES**

**EYES:** Treat eye contact and a medical emergency (call 911). Gently hold eyelids open and immediately flush eyes with water for at least 15 minutes or until pain eases. Remove contact lenses if possible. Cover eyes loosely with sterile dressing and SEEK IMMEDIATE MEDICAL ATTENTION.

**SKIN:** Flush area with copious amounts of water while removing contaminated clothing and footwear. Continue flushing until discomfort eases. Treat burns as if caused by heat or flame. Seek immediate medical attention for extensive burns or exposure. Seek medical attention if irritation persists or worsens

**INGESTION:** Get immediate emergency medical attention (Call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give water, milk, or dilute citrus juice unless unconscious or convulsing. Keep patient warm, quiet, and comfortable and treat for shock.

**INHALATION:** If affected by vapors, spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen. If breathing is difficult, give oxygen and get immediate medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe irritation or pain, blurring and loss of vision, burns and/or permanent damage.

**SKIN:** Severe irritation and burns.

**INGESTION:** Causes severe irritation and burns to mouth, throat, esophagus, and GI tract. Can cause gastrointestinal discomfort, including nausea, vomiting, and diarrhea.

**INHALATION:** Spray or mists can severely irritate eyes, nose, throat, and respiratory tract causing coughing, sneezing, difficulty breathing, etc.

**NOTES TO PHYSICIAN:** Treat symptomatically. If burns are present, treat for thermal burns.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Not Applicable - Water based product with no flashpoint.

**EXTINGUISHING MEDIA:** Not Applicable

**HAZARDOUS COMBUSTION PRODUCTS:** Not Applicable

**EXPLOSION HAZARDS:** Containers can burst if exposed to flames or high temperatures.

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Remove uninvolved personnel. Contain and absorb spill. Avoid runoff into storm sewers and ditches which lead to waterways. Rinse spill area with water. Dispose of contaminated absorbent material properly.

**LARGE SPILL:** Wear appropriate PPE. Remove uninvolved personnel from area. Stop flow. Contain spill and keep from entering sewer or

surface waterways. Collect spill into suitable, properly labeled containers for use or disposal. Rinse spill area with water.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not discharge to or allow to enter surface waterways, drains, or public sewers

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes and skin. Avoid exposure to mists or sprays. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

**STORAGE:** Store in original containers in well ventilated area away from strong acids. Keep containers tightly closed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)			
EXPOSURE LIMITS			
Chemical Name	Type		
	OSHA PEL	TWA	mg/m <sup>3</sup>
Sodium Hydroxide			2

**ENGINEERING CONTROLS:** Maintain sufficient ventilation in storage and use areas to prevent the accumulation of product vapors, spray, or mists. Provide local exhaust for enclosed areas.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses or goggles and face shield when handling.

**SKIN:** Wear chemically resistant outer garments, impermeable boots and gloves when handling.

**WORK HYGIENIC PRACTICES:** Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

**OTHER USE PRECAUTIONS:** Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** none

**APPEARANCE:** clear, colorless liquid

**pH:** > 13.0

**Notes:** (5% in water)

**PERCENT VOLATILE:** approximately 50%

**VAPOR PRESSURE:** Same as water (approximately)

**VAPOR DENSITY:** Same as water (approximately)

**BOILING POINT:** 145°C (2.93°F)

**FREEZING POINT:** 14°C (57°F)

**SOLUBILITY IN WATER:** Complete in all proportions.

**SPECIFIC GRAVITY:** 1.54

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Reactive with acids. Reacts with soft metals to release hydrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with metals such as aluminum or zinc (releases hydrogen, a flammable gas). Reacts vigorously with concentrated acids (generating heat and steam)

**INCOMPATIBLE MATERIALS:** Concentrated acids, metals such as aluminum or zinc, ammonia and amines

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**DERMAL LD<sub>50</sub>:** 1350 mg/kg (rabbit) - caustic soda

**ORAL LD<sub>50</sub>:** No data

**INHALATION LC<sub>50</sub>:** No data

Skin corrosion/irritation

:

Corrosive to skin, eyes, and metals.

## 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** No data

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** ~ 46 mg/l (Oncorhynchus mykiss)

**GENERAL COMMENTS:** Caustic soda converts to sodium carbonate upon prolonged exposure to air.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**FOR LARGE SPILLS:** See Section 6

**EMPTY CONTAINER:** Triple rinse container thoroughly with water and recycle.

**RCRA HAZARD CLASS:** D002 - Corrosive

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** UN1824, SODIUM HYDROXIDE SOLUTION, N.O.S., 8, PG II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1000 pounds

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** UN1824, SODIUM HYDROXIDE SOLUTION, N.O.S., 8, PG II

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Acute health hazard (eye and skin irritation/corrosion), Reactivity

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** Sodium Hydroxide

#### CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt. %	CERCLA RQ
Sodium Hydroxide	49 - 51	1,000

**CERCLA RQ:** 2000 lbs (as supplied)

#### EPA

**EPA RQ INGREDIENT:** Sodium Hydroxide

**EPA RQ PRODUCT:** 2000 lbs (as supplied)

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Sodium Hydroxide	1310-73-2
Water	7732-18-5

**TSCA STATUS:** All ingredients are included on the TSCA Inventory or are exempt

**CALIFORNIA PROPOSITION 65:** Contains no substances known to the State of California to cause cancer, birth defects, or reproductive harm.

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** Convert to GHS format

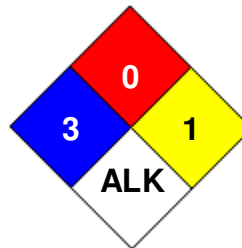
**APPROVED BY:** H. Zeller

**PREPARED BY:** CSCC **Date Prepared:** 11/02/2015

### HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

### NFPA CODES



**GENERAL STATEMENTS:** Amounts given herein (other than for regulatory purposes) are typical and do not represent a specification.

Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

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