

Safety Data Sheet

50% CAUSTIC SODA (DIAPHRAM AND MEMBRANE)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 50% Caustic Soda (Diaphram and Membrane)

DISTRIBUTOR

WAYNE CHEMICAL, INC.
7114 Homestead Road
Fort Wayne, IN 46814
Emergency Phone: 260-432-1120
Customer Service: 260-432-1120
E-Mail: info@waynechemical.com

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800-5553
CANUTEC (Canadian Transportation) : (613) 996-6666
CHEMTREC (US Transportation) : (800) 424-9300
CHEMTREC Account Number : 24245

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
Skin Corrosion, Category 1A
Serious Eye Damage, Category 1

Physical:

Corrosive to Metals, Category 1

GHS LABEL



Corrosion Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS

Prevention:

P: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
98117Y3N: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P101: If medical advice is needed, have product container or label at hand.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician or poison center if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Sodium Hydroxide	~ 50	1310-73-2
Water	~ 50	7732-18-5

4. FIRST AID MEASURES

EYES: Wash eyes with plenty of water for 15 minutes at least. Do not forget to remove contact lenses. Washing with water is the only acceptable method of removal of caustic soda (lye) from the eyes and skin. You may have 10 seconds or less to avoid serious permanent injury. Suitable emergency eye wash facility should be immediately available.

SKIN: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

INGESTION: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

INHALATION: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

NOTES TO PHYSICIAN: Eye irrigation may be necessary for an extended period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-flammable

EXTINGUISHING MEDIA: Material will not burn. Use media appropriate for surrounding fire.

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.

FIRE FIGHTING PROCEDURES: Keep people away. Isolate fire and deny unnecessary entry. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available. This material does not burn. Fight fire for other material that is burning.

FIRE FIGHTING EQUIPMENT: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire. **DO NOT USE WATER.**

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dilute with water. Wipe up with absorbant material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILL: Dike area to contain spill. Collect in suitable and properly labeled containers. Attempt to neutralize by adding materials such as Acetic acid.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

7. HANDLING AND STORAGE

HANDLING: Do not get in eyes, on skin, on clothing. Do not swallow. Avoid breathing mist. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. **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 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**.

STORAGE: Keep container closed. Do not store in: Zinc. Aluminum. Brass. Tin.

STORAGE TEMPERATURE: Store > 60 degree's F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
Sodium Hydroxide	OSHA PEL	TWA		2
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety splash goggles or face shield only needed when handling large quantities, not for normal usage.

SKIN: Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

RESPIRATORY: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

PROTECTIVE CLOTHING: Wear appropriate chemical resistant clothing.

WORK HYGIENIC PRACTICES: Always observe good personal hygiene measures, such as washing after handling the material and before eating or drinking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Odorless

APPEARANCE: Clear Liquid

COLOR: Colorless

PHYSICAL STATE COMMENTS: Liquid

pH: 14

SOLUBILITY IN WATER: Completely Miscible

10. STABILITY AND REACTIVITY

REACTIVITY: no data available

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid moisture. Product absorbs carbon dioxide from the air.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose

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: Acids. Glycols. Halogenated organics. Organic nitro compounds. Flammable hydrogen may be generated from contact with metals such as: Zinc. Aluminum. Tin. Brass.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: Not yet Determined

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

ORAL LD₅₀: Not yet Determined

Notes: Moderate toxicity if swallowed. Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation or ulceration.

INHALATION LC₅₀: Not yet Determined

Notes: Mist may cause severe irritation of upper respiratory tract (nose and throat).

SKIN CORROSION/IRRITATION: Due to the pH of the material, it is assumed that exposure will cause skin burns. Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

SERIOUS EYE DAMAGE/IRRITATION: Due to the pH of the material, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Mist may cause eye irritation.

12. ECOLOGICAL INFORMATION

BIOACCUMULATION/ACCUMULATION: No bioconcentration is expected because of the relatively high water solubility.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and Federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Sodium Hydroxide, Solution

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: UN1824

PACKING GROUP: II

15. REGULATORY INFORMATION

UNITED STATES

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

Chemical Name	Wt.%	CERCLA RQ
Sodium Hydroxide	~ 50	1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

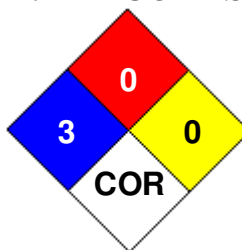
16. OTHER INFORMATION

PREPARED BY: Wayne Chemical, Inc. **Date Prepared:** 09/20/2019 **Revision Date:** 1/1/2026

HMIS RATING

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

NFPA CODES



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