

Material Safety Data Sheet

1. Product and Company Identification

Product Name

TWT-5611

Product Description

Alkalinity Builder

Manufacturer

ChemCal, Inc
635 Westport Parkway Suite 312
Grapevine, TX 76051
(817) 251-1508

24 Hour Emergency Phone Number

ChemTel: (800) 255-3924

2. Composition / Information on Ingredients

CAS Number	Chemical Name	Weight %
1310-73-2	Sodium hydroxide	~50

3. Hazards Identification

Emergency Overview**Immediate Concerns**

CORROSIVE to eyes and skin.

Potential Health Effects**Eyes**

Corrosive. Exposure may result in permanent damage.

Skin

Corrosive. Causes severe burns.

Ingestion

Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

4. First Aid Measures

Eyes

Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Skin

Immediately flush with plenty of water while removing contaminated clothing and/or shoes, and thoroughly wash with soap and water. See a medical doctor immediately.

Ingestion

Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

Inhalation

Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

Notes to Physician

Sodium hydroxide at this concentration is corrosive. Major burns to all surfaces may result. Prolonged dilution with water is required. Neutralization of eye burns is absolutely contraindicated; for skin, 2% acetic acid has been recommended, but washing with water is effective. Ingestion requires milk or water dilution, consideration of esophagoscopy and management for possible esophageal stricture.

Additional Information

Contaminated clothing must be removed and washed thoroughly prior to reuse.

5. Fire Fighting Measures

Flammable Class

Not flammable

Extinguishing Media

Use extinguishing media suitable for the surrounding fire.

Firefighting Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

General Procedures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

7. Handling and Storage

General Procedures

During handling of liquid, prevent contact with skin and eyes by using adequate personal protective equipment (see Section 8, "Exposure Controls/Personal Protection" below). If the release of airborne material is likely, exhaust ventilation and/or respiratory protection may also be necessary.

Storage

Store in closed containers away from sources of heat.

8. Exposure Controls / Personal Protection

OSHA Hazardous Components (29 CFR 1910.1200)

Chemical Name	OSHA PEL	ACGIH TLV
	TWA	TWA
Sodium hydroxide	2 ppm 2 mg/m ³	2 ppm 2 mg/m ³

Engineering Controls

Adequate engineering controls and/or personal protective equipment must be used to prevent contact with skin and eyes. Engineering controls and/or respirators may be necessary when the generation of airborne mists or fogs are possible. Eyewash stations should be located where the product is used or stored.-

Personal Protective Equipment

Eyes and Face

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area

Skin

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Contaminated gloves and clothing should be washed thoroughly prior to reuse or disposed of.

Respiratory

When exposure above the established standard is likely, a respiratory protection program that complies with OSHA General Industry Standard 1910.134 should be implemented. Wear full face-piece respirators approved by MSHA / NIOSH if mists are expected.

Work Hygienic Practices

Wash hands thoroughly after handling product containers or feed systems.

9. Physical and Chemical Properties

Physical State Liquid **Density** 12.70 lbs / Gallon

pH >13 **Turbidity** No

Specific Gravity 1.51 to 1.53 @ 25°C **Sedimentation** No

Color No Color to Yellow

Odor

Odorless

Water Solubility

Soluble

10. Stability and Reactivity

Hazardous Polymerization

Will not occur.

Conditions to Avoid

Extreme heat or freezing conditions.

Stability

Stable

Incompatible Materials

Acids, flammable liquids, organic halogen compounds, nitro compounds, and amphoteric metals, such as aluminum, magnesium and zinc.

11. Toxicological Information

Eye Effects

Corrosive

Skin Effects

Corrosive

Acute

ORAL LD50: 400 mg/kg (rabbit)itm

Carcinogenicity

IARC

Not listed

NTP

Not listed

OSHA

Not listed

12. Ecological Information

Ecotoxicological Information

Mosquito fish: 96-hour LC50 = 125 mg/L

Brown shrimp (Crangon crangon): 48-hour LC50 = 30 - 100 mg/L

Bluegill sunfish: 48-hour LC50 = 99 mg/L

13. Disposal Considerations

Disposal Method

Dispose of in accordance with all local, state and federal environmental rules and regulations.

RCRA / EPA Waste Information

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is : D002=Corrosive(pH).

14. Transport Information

DOT (Department of Transportation)

Proper Shipping Name: Sodium hydroxide solution
8, UN1824, PGII, RQ 2000 lbs

Symbol:  **Hazard Class:** 8

UN Number: UN1824 **Label Code:** 8

Special Provisions: B2, IB2, N34, T7, TP2

Packing Group: II **Packing Exceptions:** 154

Packing NonBulk: 202 **Packing Bulk:** 242

Passenger Air: 1 L **Cargo Air:** 30 L

Vessel: A **Vessel Stowage:**

ERG Number: 154 **Reportable Quantity:** 2000 lbs



15. Regulatory Information

SARA TITLE III (Superfund Amendments and Reauthorization Act)

Fire: No Pressure Generating: No Reactivity: Yes Acute: Yes Chronic: Yes

SARA 302

Contains sodium hydroxide RQ 1,000 lbs. (2,000lbs product)

RCRA (Resource Conservation and Recovery Act)

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is : D002=Corrosive(pH).
E1

FDA (Food and Drug Administration)

All components listed in 21 CFR 173.310 for use in steam that may contact food.

TSCA (Toxic Substances Control Act)

All components are listed.

16. Other Information

Hazardous Materials Identification System (HMIS)

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
Personal Protection	X

National Fire Protection Association (NFPA)



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