

# SAFETY DATA SHEET

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.  
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MATERIAL NAME: **TETRAMETHYLAMMONIUM HYDROXIDE (TMAH) 4.35-25%**

REVISED: June 2022

CHEMICAL FAMILY: Alkyl ammonium hydroxide

SYNONYMS: Alkali

Product Number for 25%: 060-TMAH

For 20%: 060-TMAH20

## SECTION 2. HEALTH HAZARD INFORMATION

### GHS Classifications

H290: Corrosive to Metals: Category 1  
H301: Acute toxicity Oral : Category 2  
H310: Acute toxicity Dermal: Category 2  
H331: Acute toxicity Inhalation : Category 3  
H314: Skin corrosion / Skin irritation : Category 1B  
H318: Serious eye damage / Eye irritation : Category 1

### Pictograms or Hazard symbols



Signal word: Danger

May be corrosive to metals.

Causes severe skin burns and eye damage. Causes serious eye damage.

Fatal if swallowed or in contact with skin. Toxic if inhaled.

### Precautionary Statements

P234 Keep only in original container.

P260 Do not breathe fume/gas/mist/vapors.

P261 Avoid breathing fumes/mist/vapors.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, clothing, and eye and face protection.

P301 + P310 If swallowed, immediately call a physician.

P301 + P330 + P331 If swallowed, rinse mouth. Do not induce vomiting.

P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

P303 + P361 + P353 If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.

P310 Seek medical assistance if exposed.

P311 Seek medical assistance if not breathing.

P330 Rinse mouth.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### **SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS**

Material		Wt %
Tetramethylammonium hydroxide	CAS# 75-59-2	4.35-25
Water	CAS# 7732-18-5	75-95.65
Total		100

### **SECTION 4. FIRST AID MEASURES**

#### **EFFECTS OF OVEREXPOSURE**

##### **FIRST AID:**

**Eye Contact:** Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

**Skin Contact:** Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

**Ingestion:** Will cause severe burns to the mouth and damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. May be fatal if swallowed. Get medical attention immediately. Induce vomiting with soap solution.

### **SECTION 5. FIRE FIGHTING MEASURES**

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
non-flammable	NA		NA	NA

**Extinguishing media:** Suitable for surrounding fire.

**Special fire fighting procedures:** Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Do not allow to come in contact with acids.

Toxic gases released: Contact with acids may release heat.



Unstable

Incompatible with:

Most common metals, acids.

Hazardous decomposition products: Heat, trimethylamine, methanol, nitrogen oxides, carbon monoxide

Hazardous	May occur	Conditions to avoid: Excess heat, direct sunlight.
polymerization:	Will not occur	X

## **SECTION 11. TOXICOLOGICAL INFORMATION**

ACUTE:

Oral, rat LD<sub>50</sub>: 34-50 mg/kg

Dermal, guinea pig LD<sub>50</sub>: 25 mg/kg

Ingredients investigated as a tumorigen, mutagen, reproductive effector

Not mutagenic per AMES test.

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

IARC Category No

OTHER DATA:

Corrosive to skin, eyes, and mucous membranes. May be fatal if swallowed or inhaled.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Bioaccumulation :** When released into the soil, this material is not expected to biodegrade.

When released into the soil, this material may leach into groundwater.

**Environmental Toxicity:** This material is suspected of being harmful to aquatic life.

Water flea (*Daphnia magna*) LC<sub>50</sub>: 55.6 mg/L/48hr

## **SECTION 13. DISPOSAL CONSIDERATIONS**

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

D002 hazardous waste

## **SECTION 14. TRANSPORTATION INFORMATION**

Class 8

PG II

UN1835

Shipping Name: Tetramethylammonium Hydroxide Solution

## **SECTION 15. REGULATORY**

Symbol: C, Corrosive

R-Phrase: 35, causes severe burns

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## **SECTION 16. OTHER INFORMATION**

NFPA Codes:

Health: 3

Flammability: 0

Reactivity: 2

R35: Causes severe burns.

Ingredients are TSCA listed.