

MATERIAL SAFETY DATA SHEET

Tetramethylammonium hydroxide, 25% in water

Section 1 - Chemical Product and Company Identification

MSDS Name: Tetramethylammonium hydroxide, 25% in water

Catalog Numbers: 42052-0000, 42052-0250, 42052-1000

Synonyms:

Company Identification: Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification: (USA) Acros Organics

One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100 **CHEMTREC Phone Number, US:** 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
75-59-2	Tetramethylammonium hydroxide	23-27%	200-882-9	С	20/21/22 34
7732-18-5	Water	73-77%	231-791-2		

Text for R-phrases: see Section 16

Hazard Symbols: C



Risk Phrases: 20/21/22 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Air sensitive.

Potential Health Effects

Eye: Causes eye burns.

Skin: Harmful if absorbed through the skin. Causes skin burns. May cause dermatitis.

Ingestion: Harmful if swallowed. Causes severe digestive tract burns with abdominal pain, vomiting,

and possible death. May cause headache.

Inhalation: Harmful if inhaled. May cause irritation of the respiratory tract with burning pain in the nose

and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical

burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Section 4 - First Aid Measures

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting Eyes:

the upper and lower evelids. Get medical aid immediately. Do NOT allow victim to rub

eyes or keep eyes closed.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15

minutes while removing contaminated clothing and shoes.

Do not induce vomiting. Get medical aid immediately. **Ingestion:**

Get medical aid immediately. Remove from exposure and move to fresh air immediately. Inhalation:

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

General As in any fire, wear a self-contained breathing apparatus in pressure-demand,

Information: MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing

Use foam, dry chemical, or carbon dioxide. Media:

Section 6 - Accidental Release Measures

General Use proper personal protective equipment as indicated in Section 8. Information:

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in

suitable container.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do

not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in

a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area. Store under an

inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 75-59-2:

CAS# 7732-18-5:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: yellowish **Odor:** ammonia-like

pH: >12

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 110 deg C @760mmHg (230.00°F)

Freezing/Melting Point: Not available
Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density: 1.020

Molecular Formula: C4H13NO
Molecular Weight: 91.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Absorbs carbon

dioxide from the air.

Conditions to Avoid: Incompatible materials, exposure to air, temperatures above 75°C

(167°F).

Incompatibilities with Other

Materials

Metals, strong oxidizing agents, strong acids.

Hazardous Decomposition

Products

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen,

ammonia, amines.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 75-59-2: PA0875000

CAS# 7732-18-5: ZC0110000

LD50/LC50: RTECS:

CAS# 75-59-2: Dermal, guinea pig: LD50 = 25 mg/kg;

RTECS:

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;

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Carcinogenicity: Tetramethylammonium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or

CA Prop 65.

Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have

not been fully investigated.

Section 12 - Ecological Information

Other: See "The dictionary of substances and their effects" (editor: M.L. Richardson) for more

information.

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	TETRAMETHYLAMMONIUM HYDROXIDE	TETRAMETHYLAMMONIUM HYDROXIDE	TETRAMETHYLAMMONIUM HYDROXIDE
Hazard Class:	8	8	8
UN Number:	1835	1835	1835
Packing Group:	II	II	II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 75-59-2: Not available

CAS# 7732-18-5: Not available

Canada

CAS# 75-59-2 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

US Federal

TSCA

CAS# 75-59-2 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

Section 16 - Other Information

Text for R-phrases from Section 2

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

MSDS Creation Date: 10/29/1996 **Revision #2 Date** 4/18/2005

Revisions were made in Sections: General revision.

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has been advised of the possibility of such damage	has bee	en advised	of the	possibility	of	such	damage	es.
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