
1. PRODUCT AND COMPANY IDENTIFICATION

MEGAPOSIT(TM) MF(TM) -26A Developer**Supplier**Rohm and Haas Electronic Materials LLC
455 Forest Street
Marlborough, MA 01752 United States of America

Revision date: 01/01/2004

For non-emergency information contact: 508-481-7950

Emergency telephone numberChemtrec 800-424-9300
Rohm and Haas Emergency 215-592-3000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	> 95.0 %
Tetramethylammonium hydroxide	75-59-2	2.3%
Polyglycol		< 1.0 %

3. HAZARDS IDENTIFICATION

Emergency Overview**Appearance**Form liquid
Colour Colorless to yellow
Odour amines**Hazard Summary****WARNING!**Alkaline liquid and vapor. Causes skin, eye, and respiratory tract irritation. Onset of symptoms may be delayed.
Prolonged, repeated contact, inhalation, ingestion, or absorption through the skin, may cause toxic effects to internal organ systems (liver, kidney, central nervous system).**Potential Health Effects**

Primary Routes of Entry: Inhalation, ingestion, eye and skin contact, absorption.

Eyes: May cause pain, transient irritation and superficial corneal effects.

Skin: Material may cause irritation.

Prolonged or repeated exposure may have the following effects:

central nervous system depression

drowsiness

defatting of skin leading to irritation and dermatitis

Ingestion: Swallowing may have the following effects:

irritation of mouth, throat and digestive tract

Repeated doses may have the following effects:

central nervous system depression

drowsiness

Inhalation: Inhalation may have the following effects:

irritation of nose, throat and respiratory tract

Higher concentrations may have the following effects:

systemic effects similar to those resulting from ingestion

Target Organs: Eye

Respiratory System

Skin

nervous system

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA

4. FIRST AID MEASURES

Inhalation: Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

Skin contact: Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.

Eye contact: Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Ingestion: Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Immediate medical attention is required. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point Nonflammable

Lower explosion limit not applicable

Upper explosion limit not applicable

Suitable extinguishing media: Not readily combustible.
Select extinguishing agent appropriate to other materials involved.

Specific hazards during fire fighting: No specific measures necessary.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: This product may give rise to hazardous vapors in a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing.

Environmental precautions

Prevent the material from entering drains or water courses.

Do not discharge directly to a water source.

Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Methods for cleaning up

Cover with absorbent or contain. Collect and dispose.

7. HANDLING AND STORAGE

Handling

Use only in well-ventilated areas. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed.

Further information on storage conditions: No special precautions necessary.

Storage

Storage conditions: Store in original container. Storage area should be: cool dry well ventilated out of direct sunlight away from incompatible materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Eye protection: goggles

Hand protection: Butyl rubber gloves. Other chemical resistant gloves may be recommended by your safety professional.

Skin and body protection: Normal work wear.

Respiratory protection: Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Engineering measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	Colorless to yellow
Odour	amines
pH	13
Boiling point/range	100 °C (212 °F)
Flash point	Nonflammable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	Similar to water

Component: **Tetramethylammonium hydroxide**

Vapour pressure	17.5 mmHg at 20 °C
Relative vapour density	no data available
Water solubility	completely soluble
Relative density	1.01
Evaporation rate	Slower than ether
VOC's	not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	Stable under normal conditions.
Conditions to avoid	contact with incompatible materials
Materials to avoid	Strong oxidizing agents acids
Hazardous decomposition products	triethylamine, nitrogen oxides (NOx), oxides of carbon, Methanol,
polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity 2.1 %(m)

A single 4h semi-occlusive application to intact rabbit skin produced no signs of dermal irritation.

No clinical signs of toxicity were observed.

Testing complied with OECD 404 and EPA TSCA 40 CFR Part 798 standard protocols.

DOT Corrosivity testing conducted on stainless steel and laboratory animals determined that this product is not corrosive.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity 3.5 %(m)

A single 4h semi-occlusive application to intact rabbit skin produced minimal signs of irritation (mean scores for erythema or edema less than 2).

No clinical signs of toxicity were observed.

Testing complied with OECD 404 and EPA TSCA 40 CFR Part 798 standard protocols.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity 5 %(m)

A single 4h semi-occlusive application to intact rabbit skin produced burns (full thickness destruction of skin).

This material is corrosive.

No clinical signs of toxicity were observed.

Testing complied with OECD 404 and EPA TSCA 40 CFR Part 798 standard protocols.

Corrosive to aluminum per DOT corrosivity testing.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity 7 %(m)

A single 4h semi-occlusive application to intact rabbit skin produced burns (full thickness destruction of skin).

This material is corrosive.

No clinical signs of toxicity were observed.

Testing complied with OECD 404 and EPA TSCA 40 CFR Part 798 standard protocols.

Corrosive to aluminum per DOT corrosivity testing.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity <5% (w/v):

Repeated application to rat skin for 6 h/d, 5 d/wk for 4 weeks did not produce systemic toxicity.

Test material was applied continuously through a reservoir affixed to shaved animal backs.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity >=5% (w/v):
 Repeated application to rat skin for 6h/d, 5d/wk for 4 weeks produced rapid toxicity and following effects:
 convulsions
 death
 Effects were noted after 2 hours of initial application.
 Test material was applied continuously through a reservoir affixed to shaved animal backs.

Component: **Tetramethylammonium hydroxide**

Acute dermal toxicity LD50 guinea pig 25 mg/kg
 100% (by weight).

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

Tetramethylammonium hydroxide

Ecotoxicity effects

Toxicity to aquatic invertebrates

LC50 ceriodaphnia dubia (water flea) 96 h

0.07 - 1.2 mg/l

A pH neutralized solution has been shown to be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Prevent the material from entering drains or water courses.

Do not discharge directly to a water source.

Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Disposal

Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

15. REGULATORY INFORMATION

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Immediate health hazard

SARA TITLE III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
This product does not contain any substances subject to Section 12(b) export notification.

US. Toxic Substances Control Act (TSCA) All intentional components are listed on the inventory, are exempt, or are supplier certified.

California (Proposition 65)

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Hazard Rating

	Health	Fire	Reactivity
NFPA	3	0	0

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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