## Material Safety Data Sheet

**Material:** Tetramethylammonium hydroxide, 25% aqueous solution  
**Trade name:** 200-882-9  
**CAS number:** 7732-18-5  
**Revision date:** 05/05/2000  
**Printing date:** 05/30/2000

### 1. Identification of Substance/Preparation
- **Description:** Tetramethylammonium hydroxide, 25% aqueous solution.
- **Uncontrolled Synonyms:** None.
- **Hazard Class:** 8
- **DOT regulation:** Class 8, Division 2.3, UN 1980
- **ICAO/IATA Class:** 8
- **Description of Goods:** Not applicable.
- **Item:** No classification data on carcinogenic properties of this material is available.
- **Hazard class:** 8
- **Proper shipping name (technical name):** Tetramethylammonium hydroxide, 25% aqueous solution.
- **Identification number:** 8
- **Hazard statement:** Corrosive.

### 2. Composition/Data on Components
- **Responsibility of the user:** The user is responsible for determining the suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and the user should make independent judgment of its applicability.

### 3. Hazards Identification
- **Emergency Phone:** CHEMTREC: (800) 424-9300
- **T+ Very toxic**
- **Hazard description:** Very toxic in contact with skin.
- **Very toxic in contact with skin**
- **Packaging group:** II
- **EC classification:** Not applicable.
- **EC number:** Not applicable.
- **Common trade names:** None.
- **Other names:** None.
- **According to DOT regulations:** Keep away from sources of ignition - No smoking.
- **Safety phrases:** Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.
- **Contact:** Johnson Matthey Catalog Company, Inc.
- **Address:** 75% Water Road South, Ward Hill, MA 01835-8099

### 4. First Aid Measures
- **First aid measures:** In case of irregular breathing or respiratory arrest provide artificial ventilation. In case of acid burns of the upper respiratory tract along with symptoms such as coughing, seek medical advice. In case of eye irritations, wash eyes with plenty of water if required, provide artificial respiration. Keep patient at rest in a supine position.

### 5. Fire-Fighting Measures
- **Suitable extinguishing agents:** Water spray.
- **Explosion hazard:** No special requirements.
- **Flash point:** Not determined.
- **Explosion limit:** Not determined.

### 6. Accidental Release Measures
- **General notes:** Danger through skin absorption.
- **Materials to be avoided:** Many reactive organic and inorganic chemicals.
- **Thermal decomposition / conditions to be avoided:** Decomposition will not occur if used and stored according to specifications.
- **Subacute to chronic toxicity:** Aqueous solutions are incompatible with alkali and alkaline earth metals and may decompose violently.
- **Corrosive substances:** Strong corrosive effect.
- **LD/Lc50 values that are relevant for classification:** Not determined.
- **Water:** Solubility in / Miscibility with water are possible.
- **Vapor pressure:** Lower: Not determined.

### 7. Handling and Storage
- **General notes:** Keep container tightly sealed.
- **Proper shipping name:** Tetramethylammonium hydroxide, 25% aqueous solution.
- **EC number:** Not applicable.
- **EC classification:** Not applicable.
- **DOT regulation:** Class 8, Division 2.3, UN 1980
- **ICAO/IATA Class:** Class 8
- **Description of Goods:** Not applicable.
- **Hazard class:** 8
- **Name of the responsible company:** Johnson Matthey Catalog Company, Inc.
- **Address:** 75% Water Road South, Ward Hill, MA 01835-8099
- **Emergency Phone:** CHEMTREC: (800) 424-9300

### 8. Exposure Controls and Personal Protection
- **Respiratory protection:** Wear self-contained respirator.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.
- **Skin protection:** Remove all soiled and contaminated clothing immediately.
- **Hand protection:** Wash hands before breaks and at the end of work.
- **Contact protection:** Store under lock and key and with access restricted to technical experts or their assistants only.
- **Respiratory protection:** Tightly sealed goggles.
- **Eye protection:** Protective work clothing.
- **Hand protection:** Wash hands before breaks and at the end of work.
- **Change in condition:** Wear protective equipment. Keep unprotected persons away.
- **Suitable extinguishing agents:** Water spray.
- **Explosion hazard:** Not determined.
- **Flash point:** Not determined.

### 9. Physical and Chemical Properties
- **Color:** Amine-like
- **Odor:** Not determined.
- **Hygroscopicity/Moisture Sensitivity:** None.
- **Ph of the solution:** Not determined.
- **Density:** Not determined.
- **Boiling point:** Not determined.
- **Melting point:** Not determined.
- **Solubility in / Miscibility with:** Aqueous solutions are incompatible with alkali and alkaline earth metals and may decompose violently.

### 10. Stability and Reactivity
- **Stability:** Decomposition will not occur if used and stored according to specifications.
- **Materials to be avoided:** Many reactive organic and inorganic chemicals.
- **Thermal decomposition / conditions to be avoided:** Decomposition will not occur if used and stored according to specifications.
- **Subacute to chronic toxicity:** Aqueous solutions are incompatible with alkali and alkaline earth metals and may decompose violently.
- **Corrosive substances:** Strong corrosive effect.
- **LD/Lc50 values that are relevant for classification:** Not determined.
- **Water:** Solubility in / Miscibility with water are possible.
- **Vapor pressure:** Lower: Not determined.

### 11. Ecological Information
- **Disposal considerations:** Dispose contaminated material as waste according to item 13.
- **Waste disposal:** Keep ignition sources away.
- **Storage:** Store in cool, dry conditions in well sealed containers.
- **Temperature of the danger of explosion:** Not determined.
- **Dilution:** Not determined.
- **Flash point:** Not determined.
- **Explosion limit:** Not determined.
- **Explosive properties:** Not determined.
- **Inflammability:** Not determined.
- **Flammable range:** Not determined.

### 12. Transport Information
- **General notes:** Not applicable.
- **Proper shipping name:** Tetramethylammonium hydroxide, 25% aqueous solution.
- **EC number:** Not applicable.
- **EC classification:** Not applicable.
- **DOT regulation:** Class 8, Division 2.3, UN 1980
- **ICAO/IATA Class:** Class 8
- **Description of Goods:** Not applicable.
- **Hazard class:** 8
- **Name of the responsible company:** Johnson Matthey Catalog Company, Inc.
- **Address:** 75% Water Road South, Ward Hill, MA 01835-8099
- **Emergency Phone:** CHEMTREC: (800) 424-9300

### 13. Regulatory Information
- **Regulatory information:** All applicable governmental permits.
- **Additional information about design of technical systems:** Ensure adequate ventilation at the workplace.
- **Information for safe handling:** Store protective clothing separately.
- **Information about protection against explosions and fires:** Additional information.
- **Suitable extinguishing agents:** Water spray.
- **Explosion hazard:** Not determined.
- **Flash point:** Not determined.

### 14. Other Information
- **General notes:** This information is furnished without warranty, and the user should make independent judgment of its applicability.
- **Additional information about design of technical systems:** Additional information about design of technical systems.
- **Information for safe handling:** Store protective clothing separately.
- **Information about protection against explosions and fires:** Additional information about design of technical systems.
- **Suitable extinguishing agents:** Water spray.
- **Explosion hazard:** Not determined.
- **Flash point:** Not determined.