Microposit® MF 319 Developer

Ingredients:

- Water: 97-98%
- Tetramethylammonium hydroxide: 2.45%

Physical Data

- Physical State: Liquid
- Colour: Clear
- Odour: Amine
- Specific Gravity: 1.001
- pH: 13
- Boiling Range/Point (C/F): 100/212
- Solubility in Water: Completely Soluble
- Evaporation Rate: Slower than ether
- Vapour Pressure: Equivalent to water

Hazardous Decomposition

- Methanol
- Triethylamine
- Nitrogen Oxides
- Carbon Oxides

Incompatibles

- Acids
- Strong oxidizing agents

Protective Equipment

Eyes

- Chemical goggles are required.
Skin

- Chemical resistant neoprene or rubber gloves and suitable clothing should be worn to prevent skin contact.

Respiratory

- Not normally required unless there is a risk of uncontrolled exposure to vapors.
- 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.

Special Precautions

- Handling:
  1. Avoid skin contact.
  2. Practice good personal hygiene to prevent accidental exposure.

- Ventilation:
  1. Provide good general (mechanical) room ventilation.
  2. Special local exhaust ventilation is recommended at points where vapors can be released into the workplace air.

Toxicity

Toxicity Data

- Tetramethylammonium hydroxide: >=5%(w/v): Repeated application to rat skin for 6h/d, 5d/wk, for 4 weeks produced rapid systemic toxicity with convulsions and death. Effects were noted 2 hours after initial application. Test material was applied cutaneously through a reservoir affixed to shaved animal backs.
- 100% (by weight): Dermal LD50 (guinea pig) 25mg/kg.

Target Organs

- Skin
- Eye
- Nervous System
- Respiratory System

Health

Effects of Overexposure:

- **Eyes:** Exposure can cause conjunctival irritation and corneal damage. Systemic effects can occur. Effects may be delayed several hours.
• **Skin**: Exposure may cause irritation. Repeated or prolonged exposure can cause chemical burns. Prolonged contact or absorption through open wounds may result in neurotoxicity, muscle spasms, convulsion and death.

• **Ingestion**: Swallowing can cause irritation of the mouth, throat, and digestive tract as well a systemic effects as listed for skin.

• **Inhalation**: Exposure can cause irritation of the nose, throat and respiratory tract.

**First Aid:**

• **Eyes**: Flush with copious amount of water for twenty minutes, holding the eye open. Obtain medical attention immediately.

• **Skin**: Flush immediately with plenty of water. Remove contaminated clothing and continue washing for 20 minutes. Contact physician if redness or blistering occurs or persists or if the material contacted open wounds. Wash clothing before reuse.

• **Ingestion**: Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

• **Inhalation**: Remove to fresh air. If there is difficulty breathing, give oxygen. Contact a physician if symptoms persist.

• **Note to Physician**: Treat symptomatically, supporting respiration and blood pressure. Control seizures. Effects believed to be reversible if hypoxia and prolonged seizures prevented.

**PEL/TWA**

**PEL**

• Not Available

**TWA**

• Not Available

**Fire Hazard Data**

• **Flash point**: Not applicable

• **Flammable Limits**: Not applicable

• **Extinguishing Media**: Use water spray, foam, dry chemical or carbon dioxide.

• **Special Fire-Fighting Procedures**: None.
• **Unusual Hazards:** None known.

**Disposal**

**Spill Procedures:**

• Materials may be absorbed with appropriate absorbent material for alkaline solutions.
• Wear appropriate protective clothing.
• Prevent material from entering drains or sewers

**Disposal:**

• Dispose of in accordance with waste disposal regulations.