

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard.  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB NO. 1218-0072

**Identity** ( As used on Label and List)  
**METHENAMINE, 3%, AQUEOUS**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section 1 CAT. #'S 26083-05

Manufacture's Name <b>ELECTRON MICROSCOPY SCIENCES</b>	Emergency Telephone Number CHEMTREC- 1-800-424-9300 (24 hrs)
Address (Number, Street, City, State and ZIP Code) <b>1560 INDUSTRY ROAD</b>	Telephone Number for Information TEL. 215-412-8400 FAX 215-412-8450
<b>PO BOX 550</b>	Date Prepared REVISED 07/20/2008
<b>HATFIELD, PA 19440</b>	Signature of Preparer (optional)

## Section II - Hazardous Ingredients / Identity Information

Hazardous Components ( Specific Chemical Identity; Common Name(s)	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
1. <b>METHENMINE</b> (C <sub>6</sub> H <sub>12</sub> N <sub>4</sub> ) CAS#: 100-97-0 SYNONYMS: Hexamethylene Tetramine; Aminoforn *The National Toxicology Program lists this compound as <b>CARCINOGEN!</b> RTECS NO.: MN4725000 TOXICITY: ivn-rat LD50 : 9200 mg/kg orl-mus LD50 : 569 mg/kg scu-mus LD50 : 215 mg/kg ivn-mus LD50 : 17,700 ul/kg Methenamine may cause heritable genetic damage! Methenamine may cause IRRITATION!				3%
2. <b>WATER</b> (H <sub>2</sub> O) CAS#: 7732-18-5				BALANCE

## Section III - Physical / Chemical Characteristics

Boiling Point	N/A	Specific Gravity ( H2O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		
Appearance and Odor: Colorless liquid, unpleasant odor			

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): Not flammable	Flammable Limits	LEL	N/A
Extinguishing Media: Water spray	N/A		

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Methenamine liberates formaldehyde gas on decomposition  
(Reproduce locally)

**Section V - Reactivity Data****METHENAMINE, 3%**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid
	Stable	<input checked="" type="checkbox"/>	

Incompatibility ( Materials to Avoid): Strong oxidizing agents; strong acids.

Hazardous Decomposition or Byproducts: CO; CO<sub>2</sub>; Nitrogen oxides

Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	May Not Occur	<input checked="" type="checkbox"/>	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation ? YES	Skin? YES	Ingestion? YES
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Health Hazards (Acute and Chronic): Harmful if swallowed, inhaled or absorbed through skin. Causes eye and skin irritation. Irritating to mucus membranes and upper respiratory tract. May cause allergic skin and respiratory reaction.

Carcinogenicity	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
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**CARCINOGEN!** May alter genetic material

Signs And Symptoms of Exposure: Eye and skin irritation

Medical Conditions

Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. If skin contact, wash skin with soap and copious amounts of water. CALL A PHYSICIAN for eyes!

**Section VII - Precautions For Safe Handling And Use**

Steps to Be Taken in Case Material is Released or Spilled: Wearing protective clothing and gear, absorb spill on paper towels and containerize for proper disposal.

Waste Disposal Method: Observe all current state, federal and local environmental regulations

Precautions to be taken in handling and storing: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling. Wash contaminated clothing before re-use. Keep container well sealed.

Other Precautions:

**Section VIII - Control Measures**

Respiratory Protection (Specify Type): Wear appropriate NIOSH/MSHA - approved respirator.

Ventilation	Local Exhaust	<input checked="" type="checkbox"/>	Special
	Mechanical (General)	<input checked="" type="checkbox"/>	Other

Protective Gloves: Butyl rubber gloves

Eye Protection: Safety glasses; face shield

Other Protective Clothing or Equipment: Approved work clothes

Work/Hygienic Practices: Use care when handling.