

MATERIAL SAFETY DATA SHEET

MSDS No. MM0565
Effective Date: April 12, 2004

509 511 Lab

MM0565

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Microscope Lens Cleaning Solution	416-984-3000	
Chemical Synonyms	Lens Cleaning Solution		
Formula	Mixture.	HAZARD RATING Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4	
CAS No.	Mixture.	WHMIS Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4	

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Ammonium hydroxide: CAS # 1336-21-6	6.2%	25 ppm; 18 mg/m ³
Ethyl alcohol, 95%, denatured*: CAS # 64-17-5	16.66%	1000 ppm; 1900 mg/m ³
Water: CAS # 7732-18-5	66.66%	N/A
Sodium lauryl sulfate: CAS # 151-21-3	.01%	N/A

WARNING! COMBUSTIBLE LIQUID!

SECTION III PHYSICAL DATA

Melting Point (°C)	-7°C	Specific Gravity (H ₂ O = 1)	~ 0.97 @ 20°C
Boiling Point (°C)	~ 89°C	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	16.3 (H ₂ O): 10 (Alc)	Evaporation Rate (Ether = 1)	> 1 (H ₂ O)
Vapor Density (Air=1)	0.7 (Water)		
Solubility in Water	Complete.		
Appearance & Odor	Light blue, clear liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	40°C TCC. (Alc)	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.

* Denaturants:
Methyl alcohol: (CAS No. 67-56-1), Methyl isobutyl ketone: (CAS No. 108-10-1)
Ethyl acetate: (CAS No. 141-78-6), Rubber hydrocarbon solvent: (CAS No. 84742-89-8)

TDG Class 3.3 Flammable liquid with a flash point between 23°C and 61°C. NA1993

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SECTION V REACTIVITY DATA

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Hypochlorite solutions.
	No		

Hazardous Decomposition Products: Ammonia and carbon oxides.

Reactive under what conditions: No specific information is available.

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry: Ingestion, Inhalation.

TLV: N/A

Toxicity for animals: N/A

Chronic effects on humans: Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Cardiovascular and central nervous system, liver, kidneys.

Acute effects on humans: Harmful if swallowed. Causes irritation to skin and eyes.

SECTION VII PREVENTIVE MEASURES

Waste Disposal: Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.

Storage: Keep container dry. Keep container in a cool, well ventilated place. Keep container tightly closed. Keep away from heat. Keep away from incompatible materials. Keep away from sources of ignition and open flames.

Precautions: Avoid contact with skin and eyes. Do not breathe vapors or spray. Use with adequate ventilation. Do not ingest.

Spill or leak: Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. Wash spill area with soap and water.

Protective Clothing: Splash goggles, lab coat, vapor respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures:
Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

SECTION IX PREPARATION OF THE MSDS

Rev. No. 3 Date April 12, 2004 Approved Michael Raszeja