

Science Kit
& Boreal
Laboratories

MATERIAL SAFETY DATA SHEET

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MSDS No. MM0565
Effective Date: April 12, 2004

SECTION I

NAME

24 HOUR EMERGENCY ASSISTANCE

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

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!		
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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.
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* 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

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

SECTION V

REACTIVITY DATA

MM0565

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

Hazardous Decomposition Products	Ammonia and carbon oxides.
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Reactive under what conditions	No specific information is available.
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SECTION VI

TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation.
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TLV	N/A
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Toxicity for animals	N/A
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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.
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Acute effects on humans	Harmful if swallowed. Causes irritation to skin and eyes.
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SECTION VII

PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
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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.
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Precautions	Avoid contact with skin and eyes. Do not breathe vapors or spray. Use with adequate ventilation. Do not ingest.
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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.
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Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.
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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.
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SECTION IX

PREPARATION OF THE MSDS

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