

## MATERIAL SAFETY DATA SHEET

## **1. Product and Company Identification**

Product Name	Colormetry Reagent Cartridge CMU-H2		
CAS #	Mixture		
Product use	Miscellaneous		
Manufacturer	Miura Co.,Ltd 7 Horie-cho Matsuyama, Ehime, 799-2696 JP Phone: (089) 979 7123 <b>Miura North America Inc.</b> 6315 Shawson Drive, Unit 17 Mississauga, ON L5T 1J2 Canada Phone: 905-564-9199 Toll Free: 800-666-2182 Emergency Phone: 613-996-6666 (CANUTEC)		
Supplier			
LEGEND HMIS/NFPA	Health * 2		
Severe 4	Flammability 1		
Serious 3			
Moderate 2	Physical Hazard 0		
Slight 1 Minimal 0	Personal Protection B		
	2. Hazards Identification		
Emergency overview	DANGER TOXIC. EYE AND SKIN IRRITANT. Contains a potential teratogen.		
Potential short term health effects			
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.		
Eyes	Causes irritation.		
Skin	May cause irritation.		
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).		
Ingestion	May cause stomach distress, nausea or vomiting.		
Target organs	Eyes. Respiratory system. Skin.		
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.		
Signs and symptoms	Although animal toxicity values do not meet criteria, ethylene glycol is toxic to humans.There are numerous human case reports of toxicity and death published in the literature. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethylene glycol	107-21-1	60 - 100
Triethanolamine	102-71-6	20-29
EDTA, magnesium disodium	14402-88-1	1 - 5

4. First Aid Measures				
First aid procedures				
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.			
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.			
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.			
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.			
Notes to physician	Symptoms may be delayed.			
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.			

## 5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria.	
Extinguishing media		
Suitable extinguishing media	Carbon dioxide. Alcohol foam. Dry chemical.	
Unsuitable extinguishing media	Not available	
Protection of firefighters		
Specific hazards arising from the chemical	Not available	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.	
Explosion data		
Sensitivity to mechanical impact	Not available	
Sensitivity to static discharge	Not available	

#### 6. Accidental Release Measures

	7. Handling and Storage	
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.	
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.	
Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.	

Handling Storage Use good industrial hygiene practices in handling this material. Keep out of reach of children. Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
EDTA, magnesium disodium	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Ethylene glycol	ACGIH-TLV	
	Ceiling: 100 mg/m3	
	OSHA-PEL	
	Not established	
Triethanolamine	ACGIH-TLV	
	TWA: 5 mg/m3	
	OSHA-PEL	
	Not established	
Engineering controls	General ventilation normally adequate.	
Personal protective equipment		
Eye / face protection	Wear safety glasses with side shields.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

Appearance	liquid.
Color	black
Form	Liquid within a cartridge
Odor	Slight amine
Odor threshold	Not available
Physical state	Liquid
pH	10
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	131 °C (267.80 °F)
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.1
Octanol/water coefficient	Not available
Solubility (H2O)	Miscible
Auto-ignition temperature	Potential at high-temperature
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

# 9. Physical & Chemical Properties

# 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

# **11. Toxicological Information**

Acute effects	Although animal toxicity values do not meet criteria, ethylene glycol is toxic to humans. There are numerous human case reports of toxicity and death published in the literature.	
Component analysis - LC50 Ingredient(s)	LC50	
EDTA, magnesium disodium	Not available	
Ethylene glycol	2725 mg/l/4h rat	
Triethanolamine	Not available	
Component analysis - Oral LDS	)	
Ingredient(s)	LD50	
EDTA, magnesium disodium	Not available	
Ethylene glycol	7500 mg/kg mouse; 6.6 g/kg guinea pig; 5 g/kg rabbit; 4700 mg/kg rat	
Triethanolamine	4190 mg/kg rat; 5300 mg/kg guinea pig; 5200 mg/kg mouse	
Effects of acute exposure		
Eye	Causes irritation.	
Skin	May cause irritation.	
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).	
Ingestion	May cause stomach distress, nausea or vomiting.	
Sensitization	Non-hazardous by WHMIS/OSHA criteria.	
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.	
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.	
ACGIH - Threshold Limit Value	- Carcinogens	
Ethylene glycol IARC - Group 3 (Not Classifiabl	107-21-1 A4 - Not Classifiable as a Human Carcinogen	
Triethanolamine	102-71-6 Monograph 77 [2000]	
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.	
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.	
Teratogenicity	In rats and mice exposed to ethylene glycol, embryotoxic (late resorptions), fetotoxic (reduced fetal body weight) and teratogenic (external, soft tissue and skeletal defects) effects were observed at relatively high oral doses that caused no or minimal materna toxicity.	

## **12. Ecological Information**

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.		
Ecotoxicity - Freshwater Algae D	ata		
Ethylene glycol	107-21-1	96 Hr EC50 Selenastrum capricornutum: 6500-1300 mg/L	
Triethanolamine	102-71-6	72 Hr EC50 Scenedesmus subspicatus: 216 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 169 mg/L	
Ecotoxicity - Freshwater Fish Sp	ecies Data		
Ethylene glycol	107-21-1	96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Lepomis macrochirus: 27500 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 49000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static]	
Triethanolamine	102-71-6	96 Hr LC50 Pimephales promelas: 11800 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 450-1000 mg/L [static]	
Ecotoxicity - Microtox Data			
Ethylene glycol	107-21-1	30 Min EC50 Photobacterium phosphoreum: 620.0 mg/L; 30 min EC50 Photobacterium phosphoreum: 620 mg/L; 16 Hr EC50 Pseudomonas putida: 10000 mg/L	
Triethanolamine	102-71-6	30 Min EC50 Pseudomonas putida: >10000 mg/L	
Ecotoxicity - Water Flea Data			
Ethylene glycol Triethanolamine	107-21-1 102-71-6	48 Hr EC50 water flea: 46300 mg/L 24 Hr EC50 Daphnia magna: 1386 mg/L	
Environmental effects	Not avail		
Aquatic toxicity	Not available		
Persistence / degradability	Not available		
Bioaccumulation / accumulation			
Partition coefficient	Not available		
Mobility in environmental media	a Not available		
Chemical fate information	Not avai	lable	

## **13. Disposal Considerations**

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

#### 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

#### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

## **15. Regulatory Information**

Canadian federal regulations	Products	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.		
Canada - WHMIS - Ingredien	t Disclosure List			
Ethylene glycol Triethanolamine	107-21-1 102-71-6	1 % 1 %		
US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.			
U.S CERCLA/SARA - Haza	rdous Substances a	and their Reportable Quantities		
Ethylene glycol U.S CERCLA/SARA - Secti	107-21-1 on 313 - Emission F	5000 Lb final RQ; 2270 kg final RQ Reporting		
Ethylene glycol	107-21-1	1.0 % de minimis concentration		

Occupational Safety and Health Ad	ministration (	(OSHA)	
29 CFR 1910.1200 hazardous chemical	Yes		
CERCLA (Superfund) reportable qu	antity		
Ethanol, 2,2"-iminobis-: 100.000 1,2-Ethanediol: 5000.0000	)		
Superfund Amendments and Reau	horization Ac	ct of 1986 (SARA)	
Hazard categories		Hazard - Yes Izard - Yes I - No azard - No	
Section 302 extremely	No		
hazardous substance			
Section 311 hazardous chemic			
Clean Air Act (CAA)	Not availab		
Clean Water Act (CWA)	Not availab	-	
Safe Drinking Water Act (SDWA)	Not availab	le	
Drug Enforcement Agency (DEA)	Not availab	le	
Food and Drug Administration (FDA)	Not availab	le	
WHMIS status	Controlled		
WHMIS classification	Class D - D	ivision 1B, 2A, 2B	
WHMIS labeling			
Ctate very letiene	This produce	t doop not contain a chamical known to the State of California to cause	
State regulations	•	t does not contain a chemical known to the State of California to cause h defects or other reproductive harm.	
U.S California - 8 CCR Section 339	cancer, birt	h defects or other reproductive harm. st of Hazardous Substances	
U.S California - 8 CCR Section 339 Ethylene glycol 10	cancer, birt <b>- Director's Lis</b> 17-21-1	h defects or other reproductive harm.	
U.S California - 8 CCR Section 339 Ethylene glycol 10 U.S Illinois - Toxic Air Contaminar	cancer, birt <b>- Director's Lis</b> 07-21-1 hts	h defects or other reproductive harm. <b>t of Hazardous Substances</b> Present (exempt when vapors or particulates are formed due to work practices or procedures)	
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U.S California - 8 CCR Section 33S   Ethylene glycol 10   U.S Illinois - Toxic Air Contaminar   Ethylene glycol 10   U.S Louisiana - Reportable Quanti   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   Triethanolamine 10   U.S Minnesota - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S New Jersey - Right to Know H   Ethylene glycol 10   U.S New York - Reporting of Releas   Ethylene glycol 10   U.S Pennsylvania - RTK (Right to   Ethylene glycol 10   U.S Rhode Island - Hazardous Sub   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Sub   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Sub   Ethylene glycol 10   Triethanolamine 10   U.S R	cancer, birth - Director's Lis )7-21-1 ty List for Pollur )7-21-1 )7-21-1 )7-21-1 )7-21-1 )2-71-6 arce List )7-21-1 )2-71-6 azardous Subst )7-21-1 Ses Part 597 - L )7-21-1 Ses Part 597 - L )7-21-1 )2-71-6 Direct List )7-21-1 )2-71-6 Direct List )7-21-1 )2-71-6 Direct List )7-21-1 )2-71-6 Direct List )7-21-1 Direct List	h defects or other reproductive harm. <b>st of Hazardous Substances</b> Present (exempt when vapors or particulates are formed due to work practices or procedures) Present <b>tants</b> 5000 Lb RQ (applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period); 5000 lb RQ (applies to unauthorized emissions based on total mass emitted into the atmosphere) Present Present Present (particulate and vapor) Present <b>tance List</b> sn 0878 <b>ist of Hazardous Substances</b> 1 Lb RQ (air); 1 lb RQ (land/water) Environmental hazard Present Toxic; Flammable Flammable	
U.S California - 8 CCR Section 333   Ethylene glycol 10   U.S Illinois - Toxic Air Contaminar   Ethylene glycol 10   U.S Louisiana - Reportable Quanti   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   Triethanolamine 10   U.S Minnesota - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S New Jersey - Right to Know H   Ethylene glycol 10   U.S New York - Reporting of Relead   Ethylene glycol 10   U.S Pennsylvania - RTK (Right to   Ethylene glycol 10   U.S Rhode Island - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S.	cancer, birth - Director's Lis - Director's Lis - Director's Lis - Director's Lis - Director's Lis - Director's Lis - Director's List 	h defects or other reproductive harm. <b>at of Hazardous Substances</b> Present (exempt when vapors or particulates are formed due to work practices or procedures) Present <b>tants</b> 5000 Lb RQ (applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period); 5000 lb RQ (applies to unauthorized emissions based on total mass emitted into the atmosphere) Present Present Present (particulate and vapor) Present <b>tance List</b> sn 0878 <b>List of Hazardous Substances</b> 1 Lb RQ (air); 1 lb RQ (land/water) Environmental hazard Present Toxic; Flammable Flammable <b>tance List</b> sn 0878 <b>tance Mazardous Substances</b> 1 Lb RQ (air); 1 lb RQ (land/water)	
U.S California - 8 CCR Section 333   Ethylene glycol 10   U.S Illinois - Toxic Air Contaminar   Ethylene glycol 10   U.S Louisiana - Reportable Quanti   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   U.S Massachusetts - Right To Knot   Ethylene glycol 10   Triethanolamine 10   U.S Minnesota - Hazardous Subst   Ethylene glycol 10   Triethanolamine 10   U.S New Jersey - Right to Know H   Ethylene glycol 10   U.S New York - Reporting of Release   Ethylene glycol 10   U.S New York - Reporting of Release   Ethylene glycol 10   U.S Pennsylvania - RTK (Right to   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Sut   Ethylene glycol 10   Triethanolamine 10   U.S Rhode Island - Hazardous Sut   Ethylene glycol 10   Triethanolamine 10   U.S	cancer, birth - Director's Lis - Director's Lis - Director's Lis - Director's Lis - Director's List -	h defects or other reproductive harm. at of Hazardous Substances Present (exempt when vapors or particulates are formed due to work practices or procedures) Present tants 5000 Lb RQ (applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period); 5000 lb RQ (applies to unauthorized emissions based on total mass emitted into the atmosphere) Present Present Present Present (particulate and vapor) Present tance List sn 0878 List of Hazardous Substances 1 Lb RQ (air); 1 lb RQ (land/water) Environmental hazard Present Toxic; Flammable Flammable tubstances List (DSL) Yes	

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other Information

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.	
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