

# Safety Data Sheet


Date of issue : 01 Mar. 2005  
Date of revision : 23 Jun. 2016

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : Colormetry reagent cartridge CMU-CL2  
 Company Name : MIURA CO.,LTD.  
 Address : 7 Horie, Matsuyama, Ehime, 799-2696 Japan  
 Contact point : SDS Section  
 Telephone number :  
 Facsimile number :  
 Emergency contact :  
 Recommended use and restrictions on use : Chemical for analytical use  
 Product code : S199-003-5220-0  
 SDS No. : KMSDS-00020

## 2. HAZARDS IDENTIFICATION

GHS Classification  
 Health hazards  
 Skin corrosion/irritation Category 1  
 Serious eye damage/eye irritation Category 1  
 Specific target organ toxicity (single exposure) Category 3 (Respiratory tract irritation)

Label elements  
 Pictogram or symbol  


Signal word : Danger  
 Hazard statements : Causes severe skin burns and eye damage  
 May cause respiratory irritation

Precautions  
 [Prevention] : Do not disassembly the reagent cartridge.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Wash hands and any exposed skin thoroughly after handling.  
 Rinse mouth.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves, protective clothing and either eye protection or face protection.

[Response] : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
 IF SWALLOWED: Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

[Storage] : Store in a well-ventilated place. Store in a cool and dark place. Store locked up. Keep container tightly closed.

[Disposal] : Dispose of contents/container by entrusting to a specially controlled industrial waste disposer licensed by the prefectural governor.

Country/area information : Prepared for Japan

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture  
 Chemical name or commercial name : Colormetry reagent cartridge CMU-CL2

Ingredient name	Chemical formula	Concentration (wt.%)	CAS No.	Gazette Notification	
				ENCS No.	ISHL No.
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	10 ~ 15	7664-38-2	(1)-422	–
Phosphate	Confidential	Confidential	Confidential	Confidential	–
Propylene Glycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	Confidential	57-55-6	(2)-234	2-(8)-321
Pigment	Confidential	Confidential	Confidential	Confidential	–

Impurities and stabilizing additives that contribute to the classification : None

#### 4. FIRST - AID MEASURES

Inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	: Rinse skin with clean running water for at least 15 minutes. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
Eye contact	: Rinse cautiously with clean running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	: Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get immediate medical advice/attention.
Expected immediate and delayed symptoms	: Causes severe skin burns and eye damage May cause respiratory irritation

#### 5. FIRE - FIGHTING MEASURES

Extinguishing media	: Water, foam, carbon dioxide, dry chemical powder
Unsuitable extinguishing media	: No information available
Specific hazards	: Fire may produce toxic gases.
Special fire-fighting methods	: Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
Protective actions for fire-fighters	: Fire-fighters should wear appropriate protective equipment and protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear proper protective equipment (refer to "8. EXPOSURE CONTROLS/PERSONAL PROTECTION") and avoid eye and skin contact. Work from windward, and retract the people downwind. Deny unnecessary entry other than the people involved by, for example, using a rope.
Environmental precautions	: Use caution: Do not discharge leaked products into rivers, etc. and adversely affect the environment. Do not discharge waste water that contains this product without it being properly treated to suit the environment. For other ecological information, refer to Section 12.
Methods and materials for containment and cleaning up	: Collect spillage in an empty container which can be covered and sealed before implementing disposal processing. Neutralize the spilled area with sodium carbonate or slaked lime. Then wash away with plenty of water.

Measures for preventing secondary accidents : Clean contaminated objects and polluted areas thoroughly observing environmental regulations.  
Prevent the substance from flowing into waterways, sewers, basement, or confined areas.

## 7. HANDLING AND STORAGE

Handling  
Technical measures : Do not use this product for other than the intended use.  
Apply equipment measures described in "8. EXPOSURE CONTROLS/PERSONAL PROTECTION", and wear protective equipment.  
Do not disassembly the product.

Safety handling precautions : Avoid contact with skin, eyes, and clothing.  
Wear personal protective equipment.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash hands and any exposed skin thoroughly after handling.  
Rinse mouth.

Storage  
Safe storage conditions  
Storage conditions : Protect from sunlight. Store locked up.  
Store at temperatures not exceeding 40°C/104°F.

Packaging material : Packaging (Polyethylene)

Incompatible substances or mixtures : Refer to "10. STABILITY AND REACTIVITY".

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name or common name	Administrative Control Level (Ministry of Health, Labour and Welfare)	Occupational Exposure Limits	
		Japan Society for Occupational Health	ACGIH
Phosphoric Acid	—	1 mg/m <sup>3</sup> (2014)	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Phosphate	—	—	—
Propylene Glycol	—	—	—
Pigment	—	—	—

Engineering controls : Provide the safety shower facility, and hand- and eye-wash facility close to the site of handling. Further, their position should be clearly marked.

Personal protective equipment  
Respiratory protection : Protective mask  
Hand protection : Protective gloves  
Eye protection : Eye protection (safety goggles) or face protection  
Skin and body protection : Protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.) : Red clear liquid  
Odor : Almost odorless  
pH : 1.6  
Melting point/freezing point : No data available  
Boiling point, initial boiling point, and boiling range : No data available  
Flash point :  $\geq 104^{\circ}\text{C}$   
Explosive limits : No data available  
Vapor pressure : No data available  
Vapor density (air = 1) : No data available  
Specific gravity (Relative density) : 1.07  
Solubility : Water : Soluble  
n-Octanol/water partition coefficient (log Pow) : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Odor threshold : No data available

Evaporation rate (butyl acetate = 1)	: No data available
Flammability (solid, gas)	: Not applicable
Viscosity	: No data available

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#### 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Reacts with alkaline substances and generates heat.
Conditions to avoid	: Direct sunlight, Heating, High temperature
Incompatible materials	: Alkaline substances, Metals
Hazardous decomposition products	: No data available

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#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral	: ATEmix > 5000 (Out of category)
Dermal	: Not possible to classify because of insufficient data.
Inhalation (gas)	: Inhalation gas is not possible, as it is liquid under GHS definitions, and thus not applicable.
Inhalation (vapor)	: Not possible to classify because of insufficient data.
Inhalation (mist)	: Not possible to classify because of insufficient data.
Skin corrosion/irritation	: Causes severe skin burns and eye damage (category 1)
Serious eye damage/irritation	: Causes serious eye damage (category 1)
Respiratory or skin sensitization	: Not possible to classify because of insufficient data.
Germ cell mutagenicity	: Not possible to classify because of insufficient data.
Carcinogenicity	: Not possible to classify because of insufficient data.
Reproductive toxicity	: Not possible to classify because of insufficient data.
Specific target organ toxicity (single exposure)	: May cause respiratory irritation (category 3)
Specific target organ toxicity (repeated exposure)	: Not possible to classify because of insufficient data.
Aspiration hazard	: Not possible to classify because of insufficient data.

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#### 12. ECOLOGICAL INFORMATION

Ecotoxicity	: Acute : Not possible to classify because of insufficient data. Chronic: Not possible to classify because of insufficient data.
Persistence and degradability	: No information available
Bioaccumulative potential	: No information available
Mobility in soil	: No information available
Hazardous to the ozone layer	: Not possible to classify because of insufficient data.

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#### 13. DISPOSAL CONSIDERATIONS

Waste from residues	: Dispose of in accordance with national/local laws and regulations.
Contaminated containers and contaminated packaging	: Dispose of in accordance with national/local laws and regulations.

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#### 14. TRANSPORT INFORMATION

International regulations	
UN Number	: UN1760
UN Proper Shipping Name	: CORROSIVE LIQUID, N.O.S.
UN Class	: 8

Packing group	: III
Marine pollutant	: Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Noxious Liquid (Cat. Z)
Domestic regulations	
ERG GUIDE No.	: 154
Special precautions	: Do not throw containers. Check for leakage from containers. Load so as to prevent containers from falling, dropping, and damage, and strictly execute the collapse prevention of loads. Refer to "6. ACCIDENTAL RELEASE MEASURES", "7. HANDLING AND STORAGE", and "8. EXPOSURE CONTROLS/PERSONAL PROTECTION" to adopt the most appropriate method.

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## 15. REGULATORY INFORMATION

Poisonous and Deleterious Substances Control Act	: Not applicable
Pollutant Release and Transfer Register Law	: Not applicable
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	: Priority Assessment Chemical Substances (Propylene Glycol)
Industrial Safety and Health Act	: Dangerous or Harmful Substances Subject to Be Indicated their Names, etc. (Phosphoric Acid) Dangerous Articles and Harmful Substances Whose Names, etc. Should Be Notified (Phosphoric Acid)
Act on Prevention of Marine Pollution and Maritime Disaster	: Noxious liquid substance (Phosphoric Acid, Propylene Glycol)
Ship Safety Act	: Corrosive substance (Phosphoric Acid)
Civil Aeronautics Act	: Corrosive substance (Phosphoric Acid)

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## 16. OTHER INFORMATION

General Inquiry Point	: MIURA CO.,LTD.    SDS Section Telephone number : +81-89-979-7123 Facsimile number : +81-89-979-7101
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### References

JIS Z 7253 (2012), Japanese Standards Association  
 JIS Z 7252 (2014), Japanese Standards Association  
 Recommendations on the transport of dangerous goods-Model Regulations 17th revised edition, UN  
 Recommendations on the transport of dangerous goods-Manual of Tests and Criteria 5th revised edition, UN  
 Emergency Response Guidebook-Application to the Container Yellow Card Labeling System 4th revised edition, Japanese Standards Association  
 "Chemical Database Search Service", Japan Chemical Database Ltd.  
 International Chemical Safety Cards (ICSC) Japanese version  
 Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 5th revised edition, UN  
 National Institute of Technology and Evaluation (NITE), HP

The information in this Safety Data Sheet (SDS) is based on the latest information and data concerning revision date or preparation date. However, all information about the product is not covered in its entirety, and therefore, please handle with care. The precautions are intended for normal handling; therefore, please refrain from using for specialized applications. In addition, the descriptions of the content, physical/chemical properties, hazards, etc., are for nothing more than providing information, without any warranty of any kind.

End of Safety Data Sheet