

SAFETY DATA SHEET

| | 1. Identification | | | |
|---|---|--|--|--|
| Product identifier | Colormetry Reagent Cartridge CMU-G2 | | | |
| Other means of identification | Not available. | | | |
| Recommended use | Miscellaneous | | | |
| Recommended restrictions | None known. | | | |
| Manufacturer/Importer/Supplier Manufacturer | /Distributor information | | | |
| Company name Address | Miura Co.,Ltd 7 Horie-cho Matsuyama, Ehime 799-2696 Japan | | | |
| Telephone | +81-89-979-7123 | | | |
| E-mail | Not available. | | | |
| Emergency phone number | Not available. | | | |
| Supplier | Miura America Co., Ltd. 2200 Steven B Smith Blvd Rockmart, GA 30153 US Emergency Phone: 1-800-424-9300 (CHEMTREC) Fax: 678-685-0930 Phone: 678-929-5901 Toll Free: 855-825-4547 | | | |
| | 2. Hazard identification | on | | |
| Physical hazards | Not classified. | | | |
| Health hazards | Acute toxicity, oral | Category 4 | | |
| | Specific target organ toxicity, repeated exposure | Category 2 | | |
| Environmental hazards | Not classified. | | | |
| WHMIS 2015 defined hazards | Not classified | | | |
| Label elements | ! | | | |
| Signal word | Danger | | | |
| Hazard statement | - | o organs through prolonged or repeated exposure. | | |
| Precautionary statement | | | | |
| Prevention | Wash thoroughly after handling. Do not eat, breathe mist or vapor. | drink or smoke when using this product. Do not | | |
| Response | IF SWALLOWED: Call a POISON CENTER attention if you feel unwell. | or doctor if you feel unwell. Rinse mouth. Get medical | | |
| Storage | Store locked up. | | | |
| Disposal | Dispose of container in accordance with loca | al, regional, national and international regulations. | | |
| WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) | None known | | | |
| WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) | None known | | | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | | |
| Supplemental information | None. | | | |

3. Composition/Information on ingredients

| Mixture | | | |
|--|--|--|--|
| Chemical name | Common name and synonyms | CAS number | % |
| Ethylene glycol | | 107-21-1 | 80 - 100 * |
| Triethanolamine | | 102-71-6 | 1 - 5 * |
| All concentrations are in percent by | y weight unless ingredient is a gas. Gas conce | entrations are in percent by volu | ume. |
| Composition comments | *CANADA GHS: The exact percentage (con | centration) of composition has | been withheld as a |
| | trade secret. US GHS: The exact percentage (concentrati secret in accordance with paragraph (i) of § ² | | vithheld as a trade |
| | 4. First-aid measure | | |
| Inhalation | If symptoms develop move victim to fresh ai | r. If symptoms persist, obtain n | nedical attention. |
| Skin contact | Flush with cool water. Wash with soap and v | • • • | |
| Eye contact | Flush with cool water. Remove contact lense attention if irritation persists. | | • |
| Ingestion | Rinse mouth. Do not induce vomiting. If vom reduce risk of aspiration. Never give anythin Obtain medical attention. | | |
| Most important symptoms/effects, acute and delayed | Prolonged exposure may cause chronic effe | cts. | |
| Indication of immediate medical attention and special treatment needed | Symptoms may be delayed. Treat patient sy | mptomatically. | |
| General information | Show this safety data sheet to the doctor in a out of reach of children. | attendance. Avoid contact with | eyes and skin. Keep |
| | 5. Fire-fighting measu | res | |
| Suitable extinguishing media | Dry powder. Water fog. Foam. Carbon dioxid | de. | |
| Unsuitable extinguishing media | Not available. | | |
| Specific hazards arising from the chemical | Not available. | | |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothi | ng including self-contained bre | athing apparatus. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do | | |
| Specific methods | Use standard firefighting procedures and co | nsider the hazards of other inve | olved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. | | |
| Hazardous combustion products | May include and are not limited to: Oxides o | f carbon. | |
| | 6. Accidental release mea | asures | |
| Personal precautions, protective equipment and emergency procedures | Keep people away from and upwind of spill/ material unless wearing appropriate protection adequate ventilation. Local authorities shoul contained. For personal protection, see sect | ve clothing. Do not breathe mis d be advised if significant spilla | st or vapor. Ensure |
| Methods and materials for containment and cleaning up | Stop leak if you can do so without risk. Dike plastic sheet to prevent spreading. Absorb ir containers. Never return spills to original cor residual contamination. Following product re waterways, sewer, basements or confined a | n vermiculite, dry sand or earth ntainers for re-use. Clean surfa covery, flush area with water. I | and place into ce thoroughly to remov Prevent entry into |
| Environmental precautions | Do not discharge into lakes, streams, ponds | or public waters. | |
| | 7. Handling and stora | ge | |
| Precautions for safe handling | Avoid contact with eyes, skin and clothing. V not breathe mist or vapor. Use only with ade pregnancy/while nursing. Avoid prolonged ex Wash thoroughly after handling. | equate ventilation. Avoid contact | t during |
| Conditions for safe storage, including any incompatibilities | Store locked up. Store away from incompatil reach of children. | ble materials (see Section 10 o | f the SDS). Keep out c |

| upational exposure limits | | | |
|---|--|--------------------------------------|-----------------------|
| • • | onal Health & Safety Code, Sche Type | dule 1, Table 2) Value | |
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| Canada. British Columbia OELs. Safety Regulation 296/97, as am | (Occupational Exposure Limits | for Chemical Substances, Oc | cupational Health and |
| Components | Туре | Value | Form |
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | Aerosol. |
| | | 50 ppm | Vapor. |
| | STEL | 20 mg/m3 | Particulate. |
| | TWA | 10 mg/m3 | Particulate. |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| Canada. Manitoba OELs (Reg. 2′ Components | 17/2006, The Workplace Safety A Type | nd Health Act) Value | Form |
| Ethylene glycol (CAS | STEL | 10 mg/m3 | Aerosol, inhalable. |
| 107-21-1) | - · | Ũ | |
| | | 50 ppm | Vapor fraction |
| Triathanalawin - (040 | TWA | 25 ppm | Vapor fraction |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| | Threshold Limit Values (TLVs) Ba | ased on the 1991 and 1997 AC | GIH TLVs and BEIs |
| Publication (New Brunswick Reg Components | gulation 91-191), as amended Type | Value | Form |
| Ethylene glycol (CAS | Ceiling | 100 mg/m3 | Aerosol. |
| 107-21-1) | Cennig | 100 mg/m3 | |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| Canada. Ontario OELs. (Control Components | of Exposure to Biological or Che Type | emical Agents) Value | Form |
| Ethylene glycol (CAS 107-21-1) | STEL | 10 mg/m3 | Aerosol, inhalable. |
| Triethanolamine (CAS 102-71-6) | TWA | 3.1 mg/m3 | |
| 102-11-0) | | 0.5 ppm | |
| Canada. Quebec OELs. (Ministry | of Labor - Regulation respecting | g occupational health and saf | fety) |
| Components | Туре | Value | Form |
| Ethylene glycol (CAS 107-21-1) | Ceiling | 127 mg/m3 | Vapor and mist. |
| | | 50 ppm | Vapor and mist. |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| Canada. Saskatchewan OELs (O Components | ccupational Health and Safety Re Type | egulations, 1996, Table 21) Value | Form |
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | Aerosol. |
| 101-21-1) | 15 minute | 10 mg/m3 | |
| Triethanolamine (CAS 102-71-6) | | 5 / 0 | |
| Triethanolamine (CAS 102-71-6) | 8 hour | 5 mg/m3 | |
| 102-71-6) | - | 5 mg/m3 | |
| | - | 5 mg/m3 Value | Form |

US. ACGIH Threshold Limit Values

| Components | Туре | Value | Form |
|-------------------------------------|--|-----------------------------|-----------------------------|
| | | 50 ppm | Vapor fraction |
| | TWA | 25 ppm | Vapor fraction |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |
| Biological limit values | No biological exposure limits noted for th | ne ingredient(s). | |
| Exposure guidelines | Chemicals listed in section 3 that are not ACGIH or OSHA PEL. | t listed here do not have e | stablished limit values for |
| Appropriate engineering controls | Ensure adequate ventilation. | | |
| Individual protection measures | s, such as personal protective equipment | t | |
| Eye/face protection | Wear safety glasses with side shields (or | r goggles). | |
| Skin protection | | | |
| Hand protection | Impervious gloves. Confirm with reputat | ole supplier first. | |
| Other | As required by employer code. | | |
| Respiratory protection | Where exposure guideline levels may be | e exceeded, use an approv | ved NIOSH respirator. |
| Thermal hazards | Not applicable. | | |
| General hygiene considerations | Handle in accordance with good industria and immediately after handling the produ | ,0 ,1 | |

9. Physical and chemical properties

| Appearance | Liquid |
|--|---------------------------|
| Physical state | Liquid. |
| Form | Liquid within a cartridge |
| Color | Dark blue / Dark purple |
| Odor | Slight amine |
| Odor threshold | Not available. |
| рН | 9.6 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Pour point | Not available. |
| Specific gravity | 1.1 |
| Partition coefficient (n-octanol/water) | Not available. |
| Flash point | 269.6 °F (132.0 °C) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or exp | losive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| | |

10. Stability and reactivity

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

11. Toxicological information

| Routes of exposure | Eye, Skin contact, Inhalation, Inge | stion. |
|--|-------------------------------------|--|
| Information on likely routes of | of exposure | |
| Ingestion | Harmful if swallowed. May cause s | stomach distress, nausea or vomiting. |
| Inhalation | Prolonged inhalation may be harm | ful. |
| Skin contact | No adverse effects due to skin con | tact are expected. |
| Eye contact | Direct contact with eyes may cause | e temporary irritation. |
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause | e temporary irritation. |
| Information on toxicological | effects | |
| Acute toxicity | | not meet criteria, ethylene glycol is toxic to humans.There are oxicity and death published in the literature. |
| Components | Species | Test Results |
| Ethylene glycol (CAS 107-21-1) |) | |
| Acute | | |
| Dermal | | |
| LD50 | Mouse | > 3500 mg/kg, ECHA |
| Inhalation | | |
| LC50 | Rat | > 2.5 mg/L, 6 Hours, ECHA |
| Oral | | |
| LD50 | Cat | 1670 mg/kg, CCID - New Zealand |
| | Human | 1110 - 1665 mg/kg, HSDB |
| | Rat | 7712 mg/kg, ECHA |
| Triethanolamine (CAS 102-71-6 | 3) | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg, ECHA |
| Inhalation | | |
| LC50 | Not available | |
| Oral | | |

| Oral | | | |
|--|--------------------------------|--------------------------|------------------|
| LD50 | Rat | | 6400 mg/kg, ECHA |
| Skin corrosion/irritation | Prolonged skin contact may ca | use temporary irritatior | 1. |
| Exposure minutes | Not available. | | |
| Erythema value | Not available. | | |
| Oedema value | Not available. | | |
| Serious eye damage/eye irritation | Direct contact with eyes may c | ause temporary irritatio | n. |
| Corneal opacity value | Not available. | | |
| Iris lesion value | Not available. | | |
| Conjunctival reddening value | Not available. | | |
| Conjunctival oedema value | Not available. | | |
| Recover days | Not available. | | |
| Respiratory or skin sensitization | | | |
| Canada - Alberta OELs: Irrita | ant | | |
| Ethylene glycol (CAS 107 Triethanolamine (CAS 102 | , | Irritant Irritant | |
| | | | |

| Respiratory sensitization | Not available. | | | |
|---|---|--|--|--|
| Skin sensitization | This product is not expected to cause skin sensitization. | | | |
| Mutagenicity | Not classified. | | | |
| Carcinogenicity | See below. | | | |
| IARC Monographs. Overall | Evaluation of Carcinogenicity | | | |
| Triethanolamine (CAS 10 OSHA Specifically Regulate | 2-71-6) Volume 77 - 3 Not classifiable as to carcinogenicity to humans. d Substances (29 CFR 1910.1001-1052) | | | |
| Not listed. | | | | |
| Reproductive toxicity | Not classified. | | | |
| Teratogenicity | Not classified. | | | |
| Specific target organ toxicity - single exposure | Not classified. | | | |
| Specific target organ toxicity - repeated exposure | May cause damage to organs through prolonged or repeated exposure. | | | |
| Aspiration hazard | Not classified. | | | |
| Chronic effects | Prolonged exposure may cause chronic effects. | | | |
| 12. Ecological information | | | | |

| Ecotoxicity | See below | | |
|---------------------------------------|------------------------------|--|---|
| Ecotoxicological data Components | | Species | Test Results |
| Ethylene glycol (CAS 107-21-1) | | | |
| Crustacea | EC50 | Daphnia | 46300 mg/L, 48 Hours |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 8050 mg/L, 96 hours |
| Triethanolamine (CAS 102-71-6) | | | |
| Algae | IC50 | Algae | 216 mg/L, 72 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) | 565.2 - 658.3 mg/L, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 10610 - 13010 mg/L, 96 hours |
| Persistence and degradability | No data is av | ailable on the degradability of this product. | |
| Bioaccumulative potential | No data avail | able. | |
| Mobility in soil | No data avail | able. | |
| Mobility in general | Not available | | |
| Other adverse effects | | erse environmental effects (e.g. ozone depl locrine disruption, global warming potential) | |
| | | 13. Disposal considerations | |
| Disposal instructions | Dispose of co | ontainer in accordance with local, regional, r | national and international regulations. |
| Local disposal regulations | Dispose in ad | cordance with all applicable regulations. | |
| Hazardous waste code | The waste co disposal com | de should be assigned in discussion betwe pany. | en the user, the producer and the waste |
| Waste from residues / unused products | | ners or liners may retain some product resident of in a safe manner (see: Disposal instruction | |
| Contaminated packaging | | ners should be taken to an approved waste d containers may retain product residue, fol | |
| | | 14. Transport information | |
| Transport of Dangerous Goods | Classification | Method: Classified as per Part 2, Sections | 2.1 – 2.8 of the Transportation of |

Transport of Dangerous Goods
(TDG) Proof of ClassificationClassification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of
Dangerous Goods Regulations. If applicable, the technical name and the classification of the
product will appear below.

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 | | een classified in accordan ormation required by the H | ce with the hazard criteria of the HPR and the SD PR. | S |
| Canada Priority Substances | List (Second List): | Listed substance | | |
| Ethylene glycol (CAS 107 | , | Listed. | | |
| Export Control List (CEPA 1 | 999, Schedule 3) | | | |
| Not listed. Greenhouse Gases | | | | |
| Not listed. | | | | |
| Precursor Control Regulation | ons | | | |
| Not regulated. | | | | |
| WHMIS 2015 Exemptions | Controlled | | | |
| US federal regulations | This product is a "H Standard, 29 CFR | | efined by the OSHA Hazard Communication | |
| TSCA Section 12(b) Export | Notification (40 CFF | R 707, Subpt. D) | | |
| Not regulated. CERCLA Hazardous Substa | nce List (40 CFR 30 | 92.4) | | |
| Ethylene glycol (CAS 107 SARA 304 Emergency releas | | Listed. | | |
| Not regulated. OSHA Specifically Regulate Not listed. | d Substances (29 C | FR 1910.1001-1052) | | |
| Superfund Amendments and Re | authorization Act o | f 1986 (SARA) | | |
| SARA 302 Extremely hazardous substance | No | | | |
| SARA 311/312 Hazardous chemical | Yes | | | |
| Classified hazard categories | Acute toxicity (any Specific target orga | route of exposure) an toxicity (single or repeat | ted exposure) | |
| SARA 313 (TRI reporting) | | | | |
| Chemical name | | CAS number | % by wt. | |
| Ethylene glycol | | 107-21-1 | 80 - 100 * | |
| Other federal regulations | | | | |
| Clean Air Act (CAA) Section | | ^r Pollutants (HAPs) List | | |
| Ethylene glycol (CAS 107 Clean Air Act (CAA) Section | | Release Prevention (40 C | FR 68.130) | |
| Not regulated. | O a a h alaun | | | |
| US state regulations | See below | | | |
| | - | ector's): Listed substanc | e | |
| Ethylene glycol (CAS US - Illinois Chemical S | afety Act: Listed su | Listed. bstance | | |
| Ethylene glycol (CAS US - Louisiana Spill Reg | oorting: Listed subs | | | |
| Ethylene glycol (CAS US - Minnesota Haz Suk | os: Listed substanc | - | | |
| Ethylene glycol (CAS Triethanolamine (CA | - | Listed. Listed. | | |
| US - Texas Effects Scre | , | | | |
| Ethylene glycol (CAS | - | Listed. | | |
| Triethanolamine (CA | S 102-71-6) | Listed. | | |
| - | - | n to Children: Listed sub | stance | |
| Ethylene glycol (CAS US. Massachusetts RTM | (- Substance List | | | |
| Ethylene glycol (CAS Triethanolamine (CA US. New Jersey Worker | S 102-71-6) | ght-to-Know Act | | |
| Ethylene glycol (CAS 107-21-1) Triethanolamine (CAS 102-71-6) US. Pennsylvania Worker and Community Right-to-Know Law | | | | |
| Ethylene glycol (CAS | - | Night-to-Khow Law | | |

Triethanolamine (CAS 102-71-6)

US. Rhode Island RTK

Ethylene glycol (CAS 107-21-1) Triethanolamine (CAS 102-71-6)

US. California Proposition 65

WARNING: This product can expose you to chemicals including ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Listed: June 19, 2015

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene glycol (CAS 107-21-1)

Inventory status

LEGEND

| Country(s) or region | Inventory name O | n inventory (yes/no)* | | |
|--|---|-----------------------|--|--|
| Canada | Domestic Substances List (DSL) | Yes | | |
| Canada | Non-Domestic Substances List (NDSL) | No | | |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes | | |
| *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) | | | | |

16. Other information

2

| LECEND | |
|-------------------------|--|
| Severe 4 | |
| Serious 3 Moderate 2 | PHYSICAL HAZARD 0 |
| Slight 1 Minimal 0 | PERSONAL X PROTECTION X |
| Disclaimer | The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) based on the best knowledge and experience currently available. 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. |
| Issue date | 12-July-2022 |
| Version # | 02 |
| Effective date | 15-June-2022 |
| Prepared by | Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 |
| Further information | Not available. |
| Other information | For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document. |