# Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10
Effective Date: 08 January 2024

## Product Name: CMIT MIT 14%

Classified for physical and health hazards under GHS

## Section 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

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| **Product Name** | CMIT MIT 14% |
| **Other Names** | Biocide 1 5-Chloro-2-methyl-3-isothiazolone; 2-Methyl-3-isothiazolone |
| **CAS No.:** | 55965-84-9 |
| **Product Code & Size** | 20LC14, 20 Liter |
| **Recommended Uses** | Water and waste treatment |
| **Company Name** | Viva Blue Chemical Suppliers |
| **Address** | 49 Victoria Street Windsor, QLD 4030 |
| **Phone** | +61 402 981 808 |
| **Emergency Contact Number** | +61 402 981 808<br>General Information |
| **24 Hour Emergency Contact** | If poisoning occurs, contact a doctor or Poisons Information Centre<br>**Australia 131 126** or **New Zealand 0800 764 766** |

## Section 2: HAZARDS IDENTIFICATION

**Classification** Hazardous chemical according to GHS (Globally Harmonized System)

**Hazard Category**

**Category 1** Long term acute hazard to aquatic environment
**Category 1** Serious Eye damage/ irritation
**Category 1** Sensitization skin
**Category 1B** Skin corrosion/ irritation
**Category 4** Acute Toxicity Oral, Inhalation, Dermal



**Signal word:** Danger

**Hazard Statements**
**H302, H312, 332** Harmful if swallowed, in contact with skin or if inhaled
**H314** Causes severe skin burns and eye damage
**H317** May cause an allergic skin reaction
**H410** Very toxic to aquatic life with long lasting effects

**Precautionary Statements**
**P260** Do not breathe mist/ vapour/ spray
**P280** Wear protective gloves/ protective clothing, eye protection/ face protection
**P273** Avoid release to the environment
**P270** Do not eat, drink or smoke when using this product
**P272** Contaminated work clothing should not be allowed out of the workplace
**P303+P361+P353** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
**P310** Immediately call a poison center or doctor
**P305+P351+P353** If in eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
**P301+P330+P331** If swallowed Rinse mouth. Do not induce vomiting
**P363** Wash contaminated clothing before reuse
**P391** Collect spillage
**P304+P340** If inhaled Remove victim to fresh air and keep comfortable for breathing
**P405** Store locked up
**P501** Dispose of contents/ container in accordance with local/ regional/ national/ international regulations

## Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

| Chemical Entity | CAS Number | Proportions |
|---|---|---|
| Magnesium nitrate | 10377-60-3 | 18-24 % |
| 5-Chloro-2-methyl-3-isothiazolone (CMIT) | 26172-55-4 | 10-12 % |
| Magnesium chloride | 7786-30-3 | 4-7 % |
| 2-Methyl-3-isothiazolone (MIT) 1 | 2682-20-4 | 3-5 % |
| Water | 7732-18-5 | Balance % |

## Section 4: FIRST AID MEASURES

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| **Swallowed** | Rinse mouth thoroughly with water. Do NOT induce vomiting.<br>Seek medical advice if irritation, discomfort or vomiting persists. |
| **Eye** | Immediately flush exposed eyes with plenty of water for 15-20mins.<br>Remove contact lenses if able to do so during rinsing.<br>Seek Medical advice if discomfort or irritation persists. |
| **Skin** | Remove any contaminated clothing and wash the affected area with soap and water. Rinse/Flush exposed skin gently using water for 15-20 mins. Discard contaminated clothing and wash it before reuse. Contaminated clothing should not leave the workplace.<br>Seek Medical advice if discomfort or irritation persists. |
| **Inhaled** | Move exposed the individual to fresh air. Loosen clothing as necessary and position the individual in a comfortable position in fresh air. Seek medical advice if discomfort or irritation persists. If breathing is difficult provides oxygen. If not breathing: Do not use mouth to mouth method instead use a pocket mask. |
| **Advice to Doctor** | Treat symptomatically based on individual reactions of patient and judgment of the doctor. Ensure that medical personnel are aware of the material involved and provide SDS documents. |

## Section 5: FIRE FIGHTING MEASURES

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| **Flammability Conditions** | This product is non-combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and or burn. |
| **Extinguishing Media** | In case of fire, use water spray, Carbochemicalse (CO2), dry chemical or foam for extinction. |
| **Hazard Products of Combustion** | Fire may produce irritating, corrosive and or toxic gases including Sulphur oxides, Hydrogen chloride and Nitrogen oxides. |
| **Fire and Explosion Hazard** | Vapours may form explosive mixtures with air. Contact with metals may evolve flammable hydrogen gas. Explosion hazard. |

**Special Protective Precautions & Equipment for Fire fighters Protective equipment**

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment.

**Additional Information (precautions)**

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Contain runoff from fire control or dilution water- Runoff may be corrosive and or toxic and cause pollution.

**Hazchem Code** 2X

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and Emergency Procedures**

Always wear protective equipment when handling the substance and ensure adequate ventilation. Eliminate all sources of ignition like no smoking, sparks or flames. Stop the spill if possible. Isolate spill area and ensure evacuating personnel safely. Do not walk through or touch spilled material, protect skin, eyes and clothing and avoid breathing vapours.

**Environmental precautions** Prevent from reaching drains, sewers, or waterways.

**Methods and Materials for Containment and Clean Up**

Absorb with sand, earth or other non-combustible materials to clean up the spill and use a suitable non-leaking container for waste. Do not use deactivation solutions. Deactivate spill area with a freshly prepared solution of 5% Sodium bicarbonate and 5% Sodium hypochlorite in water. Apply the solution to the spill area at a ratio of 10 volumes of deactivation solution per estimated volume of the spill. After 30 min of standing, flash with a lot of water.

## Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling** Ensure an eye and safety shower are available and ready for use in case of an emergency. To avoid contact with eyes, skin and clothing, wear protective clothing, safety glasses and face protection. Do not breathe vapours. Follow good hygiene procedures when handling substances. Do not eat, drink, smoke or use personal products when handling substances. Use only in well-ventilated areas. Avoid contact with eyes, skin, and clothing.

**Conditions for Safe Storage including and incompatibilities**

Store in a cool, dry, well-ventilated area and out of direct sunlight. Recommended storage temperature 1°C to 55°C. Keep containers tightly closed when not in use and lock up. Protect from freezing. Protect against physical damage. Inspect regularly for deficiencies such as damage or leaks. Keep away from incompatible materials like oxidizing agents, amines, mercaptans and reducing agents.

**Container Type** Store in original packaging as approved by manufacturer. Do not store it in steel containers.

## Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Control Parameters** No specific exposure standards are available for this substance.

**Appropriate Engineering Controls** Use local exhaust ventilation with a minimum capture velocity of 150 ft/min at the point of dust or mist evolution.

**Respiratory Protection** Use suitable respiratory protective equipment when inadequate ventilation or where risk assessment shows air-purifying respirators are appropriate. Recommendation: approved half- or full-facepiece respirator. Filter type suitable for organic vapor+ particulate. In an emergency: Use an approved self-contained breathing apparatus.

**Protection of Skin** Appropriate personal equipment is required like protective overalls, safety footwear and gloves.

**Eye Protection** Safety Glasses and face shield are recommended to prevent contact with eyes.

**Work hygienic practices** Do not eat, drink, or smoke when handling the substance. Wash hands after handling and wash contaminated clothing after reuse. Materials made of leather require disposal after contamination. Don’t remove contaminated clothing from the workplace.

**Biological Limit Values** No information available

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| **Appearance** | Yellow or yellow- green liquid |
| **Odour** | Pungent |
| **Vapor Pressure** | No data available |
| **Vapor Density** | 0.62 Air = 1 |
| **Boiling Point** | 100°C |
| **Melting Point/Freezing point** | Minus 33°C/ not determined |
| **Solubility** | Soluble in water |
| **Specific Gravity** | 1.27 - 1.33g/mL |
| **Flash Point** | Not Determined |
| **pH** | 2.0 - 4.0 |
| **Corrosion Rate** | No data available |
| **Auto Ignition Temperature** | No data available |
| **Specific Heat Value** | No data available |
| **Particle Size** | No data available |
| **Bulk density** | No data available |
| **Evaporation Rate** | < 1 (n-butyl acetate =1) |
| **Viscosity** | 16000 cPs @ 25°C |
| **Percent Volatile** | No data available |
| **Partition Coefficient** | No data available |
| **Saturated Vapor Concentration** | No data available |
| **Molecular weight** | No data available |
| **Octanol Water Coefficient** | No data available |
| **Decomposition temperature** | No data available |
| **Potential for dust explosion** | Not applicable |
| **Non-Flammables that could contribute unusual hazards to a fire** | No data available |
| **Flame propagation or burning rate of solid materials** | No data available |
| **Fast or intensely burning characteristic** | No data available |
| **Properties that may initiate or** | This product is non-combustible. However, following |

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| **contribute to fire intensity** | evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and or burn |
| **Reactions that release gases or vapours** | Fire/ decomposition may produce irritating, corrosive and or toxic gases, including nitrogen oxides, sulphur oxides and hydrogen chloride |
| **Release of invisible flammable vapours and gases** | When heated, vapours may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards! Contact with metals may evolve flammable hydrogen gas |

## Section 10: STABILITY AND REACTIVITY

**Chemical Stability:** The substances is stable for 12 months under normal conditions of use, storage and temperature.

**Incompatible Materials:** Incompatible with oxidizing agents, reducing agents, amines and mercaptans

**Hazardous Decomposition Products:** Fire/ decomposition may produce irritating, corrosive and or toxic gases, including Nitrogen oxides, Sulphur oxide and Hydrogen chloride

**Hazardous Polymerisation:** Product will not undergo polymerisation

**Conditions to Avoid:** Do not expose to extreme temperatures and protect from freezing

## Section 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

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|---|---|---|
| Ingestion | 465mg/kg (male) 393mg/kg (female) | LD50 rat |
| Dermal | 1,008mg/kg | LD50 rabbit |
| Inhalation | 0.33mg/L (4h) | LC50 rat |

**General information:**

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|---|---|
| Skin and Eye Corrosion/ Irritation | Corrosive! Causes severe skin burns and eye damage |
| Respiratory/ skin sensitization | May cause an allergic skin reaction |
| Single Target Organ Toxicity (STOT) single expose | No Additional Information |
| Single Target Organ Toxicity (STOT) repeat expose | Not considered to cause serious damage to health |

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| Carcinogenicity | None |
| Gem Mutagenicity | Not considered to be genotoxic based on weight of evidence |
| Reproductive Toxicity | None |
| Aspiration toxicity | No information available |

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

- LC50, Fish (Oncorhynchus mykiss (Rainbow trout)): 0.19mg/L (96h)
  LC50, Fish (Lepomis macrochirus (Bluegill sunfish)): 0.28mg/L (96h)
- EC50, Aq. Invertebrates (Daphnia magna): 0.16mg/L (48h)
- EC50, Algae (Marine algea (Skeletonema costatum)): 0.003mg/L (48h)
- EC50, Algae (Selenastrum capricornutum): 0.018 mg/L (48h)

**Persistence/ Degradability** Not readily biodegradable. Slowly in the environment (18%, 35d)

**Mobility in Soil** Accidental spillage may lead to penetration in the soil and groundwater

**Environmental Exposure** Very toxic to aquatic life with long lasting effects- Avoid release to environment

**Bioaccumulative Potential** No evidence that bioaccumulation will occur

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal** Dispose of hazardous waste according to all local, state, and federal regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Special Precautions for Land Fill** Dispose contaminated packaging as per unused product

## Section 14: TRANSPORT INFORMATION*

**UN Number** 3265
**Shipping Name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains: 5-Chloro-2-methyl-3- isothiazolone, 2-methyl-3-isothiazolones)
**Dangerous Goods Class** 8 Corrosive Substances
**Subsidiary Risk** No data available
**Pack Group** II

| | |
|---|---|
| **Hazchem Code** | 2X |
| **EPG** | 37 Toxic and or corrosive substances Non-combustible |
| **EMS** | F-A, S-B |
| **Special precautions for user** | No data available |

*As per ADG Code, IATA DGR and IMDG Code

## Section 15: REGULATORY INFORMATION

Classified as dangerous goods according to Australia Code for the transport of dangerous goods by road and rail (ADG Code)

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| **General information** | Methylchloroisothiazolinone |
| **Poisons Schedule (AUST)** | Schedule 6 |
| **National/ Regional Inventories** | Australia (AIIC), New Zealand (NZIoC) |

## Section 16: CONTACT POINT

Any advice, recommendation, information, assistance, or service provided by Viva Blu in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer of any liability on the part of Viva Blu. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

Craig Mair
Managing Director

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