Safety Data Sheet

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

Product Name: CMIT MIT 1.4%

Classified for physical and health hazards under GHS

Section 2: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	CMIT MIT 1.4%
Other Names	Biocide 1, 5-Chloro-2-methyl-3-isothiazolone; 2-Methyl-3-isothiazolone
CAS No.	55965-84-9
Product Code & Size	20LC01 - 20 Liter
Recommended Uses	Water and waste treatment
Company Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street Windsor, QLD 4030
Phone	+61 402 981 808
Emergency Contact Number	+61 402 981 808 General Information
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre **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 2 Eye damage/ irritation
Category 1B Sensitization skin
Category 2 Skin corrosion/ irritation



Signal word: Warning

Hazard Statements
H303, H313, H333 Maybe harmful if swallowed, contact with skin or if inhaled
H315 Causes skin irritation
H317 May cause an allergic skin reaction

Precautionary Statements
P264 Wash hands thoroughly after handling
P265 Do not touch eyes
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/ protective clothing, eye protection/ face protection
P302 + P362 + P352 If on skin: Get medical help, take of contaminated clothing and wash with plenty of water
P305+P351+P353 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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	1.8-2.4 %
5-Chloro-2-methyl-3-isothiazolone (CMIT)	26172-55-4	1.0-1.2 %
Magnesium chloride	7786-30-3	0.4-0.7 %
2-Methyl-3-isothiazolone (MIT) 1	2682-20-4	0.3-0.5 %
Water	7732-18-5	Balance %

Section 4: FIRST AID MEASURES

Swallowed	Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical advice if irritation, discomfort or vomiting persists.
Eye	Immediately flush exposed eyes with plenty of water for 15-20mins. Remove contact lenses if able to do so during rinsing. 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. 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

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. 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. Ensure an eye bath and

safety shower are available and ready for use.

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.

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

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

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

General information:

Acute Toxicity	<1.0%
Skin and Eye Corrosion/ Irritation	May cause 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
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)): 0.019mg/L (96h)
  LC50, Fish (Lepomis macrochirus (Bluegill sunfish)): 0.028mg/L (96h)
- EC50, Aq. Invertebrates (Daphnia magna): 0.016mg/L (48h)

Persistence/ Degradability	Not readily biodegradable.
Mobility in Soil	None
Environmental Exposure	None
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)

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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