



Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10

Effective Date: 29 May 2024

Product Name: Trichloroisocyanuric acid

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	Trichloroisocyanuric acid
Other Names	Not applicable
CAS No.	87-90-1
Product Code & Size	20LTIA
Recommended Uses	Industrial Water 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 Skin corrosion/ irritation

Category 2A Serious eye damage/ irritation

Category 1 Acute hazard to the aquatic environmental

Category 3 Specific Target Organ Toxicity (Single Exposure)

Category 1 Long-term hazard to the aquatic environmental

Category 2 Oxidising Solids

Category 4 Acute Toxicity (oral)

Category 4 Acute Toxicity (Inhalation)

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Signal word: Danger

Hazard Statements

H271: May causes fire or explosion, strong oxidizer

H302+ H332: Harmful if swallowed or inhaled

H315+ H319: Causes skin irritation and serious eye irritation

H371: May causes damage to organs

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P220: Keep away from clothing and other combustible materials

P233: Keep container tightly closed.

P261: Avoid breathing fumes

P264+ P265: Wash hands thoroughly after handling. Don't touch eyes

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or with adequate ventilation

P273: Avoid release to the environment

P280: Wear protective gloves, clothing, eye protection, face protection

P317+ P332: Get medical help if on skin

P317+ P337: Get medical help if in eye

P321: Specific treatment, refer to SDS first aid section

P302+P352: IF ON SKIN: Rinse with plenty of water

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do.

P362+ P364: Take off contaminated clothing and wash before re-use



P370+ P378: In case of fire: Use water to extinguish. No other extinguishing media

P391: Collect spillage

P403: Store in well-ventilated place

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
Trichloroisocyanuric acid	87-90-1	99- 100%
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

Swallowed	Rinse mouth with water. Do NOT induce vomiting. Immediately seek medical attention for advice. If vomiting, ensure free airway and prevent aspiration. Keep the person calm. Follow DRSABCD if necessary.
Eye	Rinse with plenty of water at least for 15 minutes. Remove contact lenses if present and easy to do. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Skin	Remove contaminated clothing and shoes and wash before re-use. Wash affected areas with plenty of water. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Inhaled	Move exposed individual to a comfortable breathing position and exposure to fresh air. Loosen clothing for better breathing. Follow DRSABCD if necessary.
Advice to Doctor	Corrosive effects on the skin and eyes may be delayed after exposure. Treat symptomatically based on individual reactions of patient and judgement of doctor.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**Most important symptoms and effect, both acute and delayed**

Irritation, burns, shortness of breath and more.

Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions Oxidizing solids!

Extinguishing Media Use water as extinguishing media.

General information Follow safety procedure for fire situations.

Special Protective Precautions & Equipment for Fire fighters' Protective equipment

Runoff may be toxic and/ or corrosive and pollute waterways. Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment.

Hachem Code 1W

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment, and Emergency Procedures**

Always wear protective equipment when handling the substance and ensure adequate ventilation. Kepp unauthorized people away. Avoid breathing fumes and contact with eyes, skin and clothing.

Eliminate all sources of ignition. Do not allow product to reach drains, sewers, or waterways. If the product does enter a waterway, advise the Environment Protection Authority or your local Waste Management. Do not touch damaged containers or spilled substances. Keep people away from exposure area at least 250m.

Environmental precautions Prevent from reaching drains, sewers, or waterways. Collect contaminated soil for characterization per section 13. Small spillages may be washed with plenty of water.

Methods and Materials for Containment and Clean Up



Wear protective clothing. Transfer spillage with a clean shovel into a dry, clean and labelled container. Avoid contact with water as gas evolution may occur. For liquid: Clean up spill by covering with dry earth and or non-combustible material followed by plastic sheet to minimize spreading. Transfer to a suitable, labeled waste container and hold for safe disposal. If necessary, use trained response staff/contractor.

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 or face protection. Do not breathe fumes. 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. Collect spillage.

Conditions for Safe Storage including and incompatibilities

Store in a cool (out of direct sunlight), well-ventilated and dry place. Keep container tightly closed and in its original packaging. Keep away from heat and sources of ignition. Avoid physical damage to containers. Store locked up. Protect from moisture/ humidity.

Container Type Store in original packaging as approved by manufacturer.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters Decomposition product: Chlorine: TWA 1ppm peak limitation according to Safe Work Australia.

Appropriate Engineering Controls Preferent use local exhaust ventilation to minimise the exposures.

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 have to be worn at all times.

Work hygiene practices Do not eat, drink or smoke when using the substance. Handle in accordance with good industrial hygiene and safety practice. Wash hands and exposed



area after handling.

Precautions Do not allow wash water from cleaning or process equipment to enter drains. Water treatment may be required before disposal.

Biological Values No information available

Exposure Limits No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or green crystalline powder, granulate or tablets
Odor	Chlorine
Vapor Pressure	No data available
Vapor Density	No data available
Boiling Point	No data available
Freezing Point	No data available
Solubilities	1.2g in 100mL @25°C
Specific Gravity	No data available
Flash Point	Not applicable
pH	2.7 - 3.3 (1% solution)
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Ignition Temperature	No data available
Specific Heat Value	No data available
Viscosity, kinematic	No data available
Volatile Organic Compounds	Not applicable
Evaporation Rate	Not applicable
Viscosity	No data available
Percent Volatile	No data available
Decomposition Temperature	225°C
Saturated Vapor Concentration	No data available
Additional Characteristics	No data available
Flame Propagation/Burning rate of Solid Material	No data available



Fast or intensely burning characteristics	Risk of violent reaction or explosion. May intensify reaction: Oxidizer.
Reactions that release flammable Gases	Fire may produce toxic, irritation and/ or corrosive gases

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable at recommended storage conditions.
Incompatible Materials	Water, metals, ammonia and ammonia compounds (amines, ammonium salt), oxidising materials, reducing agents and nitrogen containing compounds.
Hazardous Decomposition products	Fire can cause production of irritation, toxic and or corrosive gas like Chlorine, hydrogen chloride, nitrogen, phosgene and oxides of carbon.
Possibility of hazardous reactions	When correct storage and handling, no dangerous reactions. Highly reactive oxidising chlorine compound. Fire and heat can cause toxic/ corrosive gases like Chlorine, Hydrogen chloride. Exothermic reaction with water.
Hazardous Polymerisation	When correct storage and handling, no dangerous reactions.
Conditions to avoid	Keep away from heat and sources of ignition. Avoid contact with moisture. Keep away from clothing and other combustible materials.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

Eye Irritation	Causes serious eye irritation and may cause permanent damage
Skin Corrosion/ Irritation	Causes skin irritation and contact with water can cause severe skin irritation.
Acute Toxicity	Harmful if swallowed or inhaled. May causes nausea, vomiting and diarrhea, possibility with blood. Effects on the esophagus and gastrointestinal tract which can cause a range of irritation to severe corrosion. Oral: LD50 rat: 406mg/kg Dermal: LD50 rabbit: 7600mg/kg
Single Target Organ Toxicity (STOT) single expose	Breathing fumes will produce irritation to respiratory tract



Single Target Organ Toxicity (STOT) repeat expose	No information available
Carcinogenicity	None
Gem Mutagenicity	None
Reproductive Toxicity	No information available
Aspiration toxicity	No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Acute toxicity: - LC50; Fish (bluegill sunfish): 0.2- 0.4mg/L (96h) - LC; Fish (Rainbow trout): 0.08- 0.37mg/L (96h) - LC; Algae: <0.5mg/L (3h)
Environmental fate	Very toxic to aquatic life with long lasting effects
Persistence/ degradability	No information available
Mobility in Soil	No information available
Bioaccumulation Potential	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal	Disposal in accordance with regional, national and international regulations.
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SECTION 14: TRANSPORT INFORMATION

UN Number	2468
Shipping Name	Trichloroisocyanuric acid, dry
Dangerous Goods Class	5.1 Oxidising Substances
Subsidiary Risk	No data available
Pack Group	II
Hazchem Code	1W
EPG	31 Oxidising substance
EMS	F-A, S-Q



Special precautions for user Refer to SDS

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST) 6

SECTION 16: CONTACT INFORMATION

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

EFFECTIVE DATE: 29/05/2024
LAST UPDATED: 29/05/2024
REVIEW DATE: 29/05/2029