

MATERIAL SAFETY DATA SHEET

AUSTRALIA:

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Mulgrave, VIC 3170
Ph: (03)8544 3100
Fax (03)8544 3299

NEW ZEALAND

Emergency Response: 0800 500 288
Swift New Zealand Limited
72 Hayr Road
Mt Roskill, Auckland
Ph: (09)625 6169
Fax (09)625 6655

Hazardous according to criteria of NOHSC Australia.

I IDENTIFICATION

Product Name: TCCA Gran and Tablets

Other Names: Trichloroisocyanuric Acid. Proper Shipping Name is "TRICHLOROISOCYANURIC ACID".

MSDS Code: 4004693

UN No: 2468

Hazchem Code: 2WE

Dangerous Goods Class: Class 5.1 (Oxidising Agent)

Sub Risk Class: No Subsidiary Risk.

Packaging Group: II

EPG: 5A1

Most EPGs may now be substituted by the "Initial Emergency Response Guide" available from Standards Australia.

Poison Schedule: S5 (Australia), S4 (New Zealand)

Product Type: Organic solid.

Chemical Family: Chlorinated aliphatic solid.

Uses: Chlorination of water, especially in domestic swimming pools.

Physical appearance & Properties:

Appearance & Odour: White tablet. Odour of chlorine.

Melting/softening point: 225°C

Boiling point and vapour pressure: Decomposes.

Volatile materials: Nil.

Flashpoint: Does not burn.

Specific gravity: 2.1

Solubility in water: 1% at 25°C

Corrosiveness: Slightly corrosive.

Ingredients:

Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA mg/m ³	STEL mg/m ³
Trichloroisocyanuric acid * Commercially pure.	87-90-1	pure*	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Swallowed: Data indicates that the product should be considered as harmful by ingestion.

Eye: Data indicates that this product should be classified as an eye irritant. However, permanent eye damage should not be expected.

Skin: Data indicates that product is irritating to skin.

Inhalation: Inhalation may cause irritation of the nose and throat and cause coughing and chest discomfort.

Primary route of exposure is inhalation and skin and eye contact.

MATERIAL SAFETY DATA SHEET

First Aid:

Swallowed: If swallowed, do NOT induce vomiting. Rinse mouth with water. Give a glass of water to drink. Contact a doctor or the Poisons Information Centre if symptoms of poisoning develop.

Eye: If this product comes into contact with eyes, hold eyes open and wash continuously for 15 minutes with running water. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Transport to hospital or doctor immediately.

Skin: If this product comes into contact with skin, wash skin with soap and water for 15 minutes. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. Transport to hospital or doctor immediately.

Inhalation: If dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Risk Phrases are: R8, R22, R31. Combination Risk Phrases are: R36/37. Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to eyes and respiratory system.

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

Ventilation must be adequate to ensure that the working environment is below the TWA value. Otherwise, use respiratory protection. Some materials should only be used when respiratory protection is being worn. For information on respiratory protection, consult AS1716. See below for further information.

Personal Protection:

Respiratory Protection: A face mask or respirator is not generally necessary when this material is being used. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Rubber or PVC gloves are advised. For help in selecting suitable gloves consult AS 2161.

Eye Protection: Full face mask, safety glasses or goggles are advised. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. All skin areas should be covered. Consult AS 2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots would be advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: Does not burn.

Note that these recommendations are for frequent or continuous contact situations, and are not generally necessary when used in domestic applications. However, even in this type of application, the product should be treated with care.

IV SAFE HANDLING INFORMATION

Safety Phrases are: S8, S26, S41. Keep container dry. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. In case of fire and/or explosion, do not breathe fumes.

Storage & Transport:

UN number is 2468 and Hazchem code is 2WE. It is classed as "Class 5.1 (Oxidising Agent)"

Being a scheduled poison, the product must be stored, maintained and used in accord with relevant state poisons act. Not to be transported with Classes 1 (Explosives), 2.1 (Flammable Gases), 2.3 (Poisonous Gases), 3 (Flammable Liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.2 (Organic Peroxides), 6 (Toxic Substances) (nb when substance is capable of being ignited and burning), 7 (Radioactive Substances), 8 (Corrosives), and 9 (Miscellaneous Dangerous Substances) (nb when substance is capable of being ignited and burning). Observe all regulations associated with this classification when carrying by road or rail.

MATERIAL SAFETY DATA SHEET

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

Spills and disposals:

In event of a major spill, clear area of personnel. Alert fire brigade and advise of nature & location of spill. Wear protective clothing. Prevent spillage from entering drains or water courses. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible.

After spills, wash area, preventing runoff from entering drains. If material enters drains, advise emergency services. This material may be suitable for approved incineration or landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: Does not burn.

Extinguishing Media: Use media suited to burning materials.

Special Fire fighting procedures: None.

Unusual fire & Explosion hazards: Does not burn but in a fire, may emit toxic and corrosive gases.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, chlorine, water.

Materials to avoid: Strong acids, strong alkalis, calcium hypochlorite, sodium hypochlorite, ammonium compounds, amines, oil and greases.

Note: This product is classed as a Dangerous Good. We suggest you consult your state's Dangerous Goods laws in order to clarify your obligations regarding the storage of this product.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

It also conforms with the New Zealand OSH Guidelines for the Preparation of MSDSs (May 1995).

<u>Contact Points:</u>		AUSTRALIA	NEW ZEALAND
Police and Fire Brigade:	Dial	000	111
If ineffective:	Dial	132203 (Exchange)	-
For emergency response:	Dial	1800 625 526	(0800)500 288
National Poisons Information Centre:	Dial	13 1126 (from anywhere in Australia)	

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY. THE RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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