

Section 1: Identification of the Substance/Mixture and of Supplier

Product name	CLARITY CHEMICAL STARTER KIT SMALL (BUFFER 1KG & Marathon PILLS 1Kg) CYKITP
Recommended use:	Sterilization of swimming pools and spas - Kit contains 1kg Marathon Pills, 1kg PH Buffer
Supplier:	Space Industries Limited
Street Address:	160 Plunket Ave, Wiri, Auckland New Zealand
Telephone Number:	+ 64 9 262 3902
Facsimile:	+ 64 9 262 3948
E-mail:	orders@spaceindustries.co.nz
Website:	www.spaceindustries.co.nz
Emergency Telephone	0800 764 766 (all hours)
Date of preparation:	11 April 2022

Section 2: Hazards Identification

Hazard Classification:	Hazardous according to the criteria or the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories:	HSR002683 Water Treatment Chemicals (Oxidising Liquids and Solids) Group Standard 2020 Oxidising Solid – Category 2 Acute Toxicity (oral) – Category 4 Skin Corrosion/Irritation – Category 2 Skin Sensitisation – Category 1 Serious Eye Damage/Irritation – Category 1 Aquatic Toxicity – Category 1

Pictograms:



Signal Word:

Hazard Statements:	Danger
	H272 – May intensify fire; oxidizer
	H315 – Causes skin irritation
	H317 – May cause an allergic skin reaction

Precautionary Statements:	H318 – Causes serious eye damage
	H400 – Very toxic to aquatic life
General	
Prevention	P102 – Keep out of reach of children
	P103 – Read Label before use
	P210 – Keep away from Heat/open flames/sparks; No smoking
	P220 – Store away from combustible materials
	P221 – Take precaution not to mix with combustibles/other chemicals
	P261 – Avoid Breathing Dust
	P264 – Wash hands thoroughly after handling
	P272 – Contaminated work clothing should not be allowed out of the workplace
Response	P273 – Avoid release to the environment
	P280 – Wear protective gloves, clothing and eye/face protection
	P101 – If medical assistance is needed have the container at hand
	P310 – Immediately call a POISON CENTER or doctor/physician
	P321 – Clean exposed skin thoroughly with soap and water, seek medical attention if a reaction develops.
	P362 – Take off contaminated clothing and wash before re-use
	P391 – Collect Spillage
	P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	P332 + P313 – If skin irritation occurs: Get medical advice/attention
Disposal	P370 + P378 – In case of fire: Use water extinguisher or hose.
	P501 – Dispose of any left over chemical at an approved hazardous substance collection facility
Environment Protection Authority (New Zealand)	Hazardous Substances and New Organisms Amendment Act 2015
HASNO Classifications	Health Hazards
	6.1D - Substances that are acutely toxic/harmful
	6.3A - Substances that are irritating to the skin
	6.5b - Substances that are contact sensitizers

- 6.9B - Substances that are harmful to human target organs or systems
8.3A - Substances that cause serious eye damage
Environmental Hazards
9.1A - Substances that are very toxic in the aquatic environment
9.2D - Substances that are harmful in the soil
9.3B - Substances that are harmful to terrestrial invertebrates

Section 3: Composition/information on ingredients

Product Description: It is widely used for sterilization of swimming pools, spas and drinking water, industrial circular water, aquaculture, hotel, hospital and other public places. Also used as bleaching agent and antiseptic for wood, cotton, textile, chemical fabrics etc. White crystal granular.

Trichlor PILLS 500g pack Components / CAS Number	Proportion	Risk Phrases
Trichloroisocyanuric acid 87-90-1	>92%	R8, R22, R31, R36/37, R50/53
Copper Sulphate 7758-98-7	<3%	
Aluminium Sulphate 10043-01-3	<5%	
PH BUFFER 1kg pack Sodium Bicarbonate 144-55-8	100%	None

Section 4: First Aid Measures

Show this Safety Data Sheet to a Doctor

Short term exposure by all routes is considered to be harmful.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call the Poison Centre (0800 764 766) or a Doctor
Skin Contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion:	If swallowed - Rinse mouth. DO NOT induce vomiting. Give a glass of water. Contact a Doctor or the Poisons Information Centre (0800 764 766) for further advice
Notes to physician:	If swallowed - causes severe burning and corrosion to the mucous membranes and tissues of the mouth, throat and stomach. Corrosive to eyes. Can cause corneal burns. Skin contact will cause moderate irritation. Corrosive on contact with moist skin and will cause burns. If inhaled – mist vapour can produce respiratory irritation and may cause damage of the upper respiratory tract and lung tissues.

For advice, contact the Poisons Information Centre 0800 764 766 or a doctor

Section 5: Fire Fighting Measures

Specific Hazards:	Oxidizer which supports combustion.
Suitable Extinguishing Media:	Water fog to extinguish fire. If unavailable, water spray. Deluge with water. Water may be effective for cooling containers.
Fire-fighting advice:	May react violently and produce an explosive reaction. May cause combustible materials to burn or explode. Produces poisonous gas when decomposes
Hazchem Code:	2 (WE)

Section 6: Accidental Release Measures

Procedures to be covered:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency. Clean-up personnel should wear full protective clothing, including breathing apparatus in dusty conditions.
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Section 7: Handling and Storage

Handling:	Keep out of reach of children. Read label before use.
Storage:	Avoid contact with clothing and other combustible materials. Do not store near combustible materials or in corrosive storage areas. Store in a secure cool and dry area away from heat and direct sunlight.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:	No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).
Engineering Control Measures:	Ventilation and circulation of air and control the expose level below the suitable standard of workshop, including overall or partial ventilation, processing sealing and other project control.
Personal Protective Equipment:	Wear safety glasses. Have suitable clothes and gloves, avoid exposing skin. Have suitable inhalation projecting device if working in highly contaminated area. After working and before a rest, meal smoking, or going to the toilet wash hands and face completely.

Section 9: Physical and Chemical Properties

Physical state:	Multi Pills – 20g tablets
Colour:	White
Formula:	Trichloro-isocyanuric acid, with Copper Sulphate Pentahydrate and Aluminium Sulphate
Specific Gravity/Bulk	225
Melting Point:	No
Steam Pressure:	No
Flash Point:	No
Available Chlorine:	Min 82%
Physical state:	PH Buffer - Crystal Granular
Colour:	White
Formula:	Sodium Bicarbonate NaHCO ₃
Specific Gravity/Bulk	2.2gm/cm ³
Melting Point:	50C
Steam Pressure:	No

Flash Point:	No
Available Chlorine:	0%

Section 10: Stability and Reactivity

Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	Extreme heat
Incompatible materials:	Incompatible with acids, metals, metal salts, peroxides, reducing agents, and ethylene, diamine tetraacetic acid.
Hazardous decomposition products:	Chlorine.
Hazardous reactions:	Oxidiser

Section 11: Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:	
Ingestion:	If swallowed - causes severe burning and corrosion to the mucous membranes and tissues of the mouth, throat and stomach.
Eye contact:	Corrosive to eyes. Can cause corneal burns.
Skin contact:	Skin contact will cause moderate irritation. Corrosive on contact with moist skin and will cause burns.
Inhalation:	If inhaled – mist vapour can produce respiratory irritation and may cause damage of the upper respiratory tract and lung tissues.

Section 12: Ecological Information

Environmental fate, Persistence and degradation:	Avoid contaminating waterways. This material is biodegradable
Aquatic toxicity:	Very toxic to aquatic organisms. Fish, crustacean & algae
Terrestrial toxicity:	Expected to be harmful to terrestrial species

Section 13: Disposal Considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Trichlor is a hazardous waste and should be disposed accordingly. Do not dispose of filled or partially filled containers in common waste receivers, as contaminants could generate spontaneous decomposition and fusion of the material and rupture the drum.	
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Section 14: Transport Information

Road and Rail Transport:	Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.
UN No:	2468
Class-primary	5.1.1B
Packing Group:	II
Proper Shipping Name:	Trichloroisocyanuric Acid Tablets
Hazchem Code:	2(WE)
Marine Transport:	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods



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UN No:	Code (IMDG Code) for transport by sea; DANGEROUS GOODS 2468
Class-primary	5.1.1B
Packing Group:	II
Proper Shipping Name	Trichloroisocyanuric Acid Tablets

Section 15: Regulatory Information

ERMA Approval:	HSR002683 Water Treatment Chemicals (Oxidising Liquids and Solids) Group Standard 2020
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Section 16: Other Information

.Issue Date: 10 February 10, 2021 Note: All information given by Space Industries Ltd is offered in good faith and is, to the best of our knowledge, true and accurate. However, since conditions of use are beyond our control, all information relevant to usage is offered without warranty or guarantee and should not be construed as a representation that the product is suitable for any particular purpose or application.
