

SAFETY DATA SHEET



C-Tec ProBowl

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Tec ProBowl

OTHER NAMES: Toilet Bowl Cleaner
RECOMMENDED USE: Toilet bowl and urinal cleaner/disinfectant

SUPPLIER NAME: 2CARE PRODUCTS
ADDRESS: 9 Donnor Place
Mt Wellington
AUCKLAND

Phone: 0800 753 753
Fax: (09) 574 5999

Emergency Telephone: 0800 764 766 NEW ZEALAND NATIONAL POISON CENTRE

2. HAZARD(S) IDENTIFICATION

GLOBALLY HARMONISED SYSTEM

HAZARD CLASSIFICATION HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

HAZARD CATEGORIES Corrosive to metals Category 1
Skin Corrosion/Irritation Category 1C
Serious Eye Damage/Irritation Category 1

PICTOGRAMS



SIGNAL WORD **DANGER**

HAZARD STATEMENTS H290 – May be corrosive to metals.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.

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PRECAUTIONARY STATEMENTS

PREVENTION

P102 – Keep out of reach of children.
P103 – Read label before use.
P104 – Read Safety Data Sheet before use.
P234 – Keep only in original container.
P260 – Do not breathe fumes
P264 – Wash hands thoroughly after handling.
P273 – Avoid release to the environment.
P280 – Wear protective gloves, clothing and eye/face protection.

RESPONSE

P101 – If medical advice is needed, have product container or label at hand.
P310 – **IMMEDIATELY** call NZ POISONS CENTRE or doctor/physician.
P321 – **WASH** affected areas well with water.
P363 – Wash contaminated clothing before re-use.
P390 – Absorb spillage to prevent material damage.
P301 + P330 + P331 **IF SWALLOWED:** Rinse mouth. **DO NOT** induce vomiting.
P303 + P361 + P353 – **IF ON SKIN (or hair):** Remove/take off **IMMEDIATELY** all contaminated clothing. Rinse skin with water/shower.
P304 + P340 – **IF INHALED:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 – **IF IN EYES:** Rinse cautiously for several minutes. **REMOVE** contact lenses if present and safe to do so. Continue rinsing.

STORAGE

P405 – Store locked up.
P406 – Store in corrosive resistant (LDPE/HDPE or glass) containers

DISPOSAL

P501 - Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

ENVIRONMENTAL PROTECTION AUTHORITY (NEW ZEALAND)

HSNO CLASSIFICATIONS

Toxicity Hazards

8.1A Substances that are corrosive to metals.
8.2C Substances that are corrosive to dermal tissue UN PGIII.
8.3A Substances that are corrosive to ocular tissue.

The information contained in this SDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as the neat product. Check with your technical representative if in doubt.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Phosphoric Acid	H ₃ PO ₄	7664-38-2	10 – 20%
Fragrance		Proprietary	<0.5%
Non-Hazardous ingredients			< 5%
Water	H ₂ O	7732-18-5	Balance

4. FIRST AID MEASURES

INGESTION

DO NOT induce vomiting. If person is conscious slowly provide as much water as the person can comfortably drink. Transport person to nearest hospital or doctor without delay. If person has lost consciousness **DIAL 111** and request an ambulance.

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EYE CONTACT	IMMEDIATELY flush eyes with copious amounts of water for at least 20 minutes while holding eyelids open. Ensure complete irrigation of the eyes by lifting the upper and lower lids periodically. Removal of contact lenses should only be done by skilled personnel. Transport person to nearest hospital or doctor IMMEDIATELY .
SKIN CONTACT	REMOVE contaminated clothing. IMMEDIATELY flush the contaminated skin thoroughly with water for at least 15 minutes preferably under a safety shower.
INHALATION	REMOVE victim from source of exposure to fresh air. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing with a demand valve resuscitator, bag-valve mask device, or pocket mask. Perform CPR if necessary. Dial 111 and request an ambulance.
SAFETY MEASURES	Potable water should be available to rinse eyes. Provide eye baths and safety showers. Treat symptomatically.
PHYSICIAN NOTES	Treat symptomatically based on judgement of doctor and individual reactions of patient. Anyone exposed to contaminated smoke should be immediately examined by a doctor/physician and checked for symptoms of poisoning. Signs and symptoms have not been thoroughly investigated, however exposure may cause cyanosis, burning sensation, coughing, wheezing laryngitis, shortness of breath, headache, nausea and vomiting.

5. FIRE FIGHTING METHODS

GENERAL MEASURES	Clear fire area of all personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
FLAMMABILITY CONDITIONS	Product is not combustible.
EXTINGUISHING MEDIA	Extinguishing powder, Carbon dioxide (CO ₂).
HAZARDOUS PRODUCTS OF COMBUSTION	The product is non-combustible. Incompatible with strong oxidisers, strong reducing agents, strong alkalis, powdered metals, sulphur trioxide, metals, and sources of ignition. This product will release hydrogen on contact with metals, which may cause explosion in the air. Reacts with water to generate heat this reaction is not violent. Emits toxic fumes under fire conditions. It will produce the virulent gas of phosphorus at a high temperature. It is corrosive. Hazardous decomposition products may include Phosphine, oxides of phosphorus, and hydrogen gas.
SPECIAL FIRE FIGHTING INSTRUCTIONS	DO NOT allow spillage or firefighting water to reach waterways, drains or sewers. Use fire-fighting procedures suitable for surrounding area.
PERSONAL PROTECTIVE EQUIPMENT	Wear positive pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (including Helmet, Coat, Trousers, Boots and Gloves or chemical splash suit).
HAZCHEM CODE	2R.

6. SPILLAGE/ACCIDENTAL RELEASE MEASURES

GENERAL RESPONSE PROCEDURE	Clear area of all unprotected personnel. Allow only trained personnel wearing appropriate protective equipment to be involved in spill response. Contain spill, avoid further accidents, clean up immediately. Shut off all possible ignition sources. Increase ventilation. In the case of large spills alert fire brigade and notify them of location and nature of spill.
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CLEAN UP PROCEDURES	Neutralise spill with Sodium Carbonate/Bicarbonate. Absorb with sand, or earth. Transfer saturated material to suitable, labelled DRY containers and dispose of promptly as hazardous waste. Ventilate area and wash spill site down after material pickup is complete.
CONTAINMENT	Stop leak if safe to do so. Contain spill immediately if safe to do so with Sodium Carbonate/Bicarbonate.
DECONTAMINATION	Wash area down with water and collect washings for disposal.
ENVIRONMENTAL PRECAUTIONARY MEASURES	Prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise the Environmental Protection Authority and/or your local Waste Authority.
EVACUATION CRITERIA	Evacuate all non-essential personnel.
PERSONAL PRECAUTIONARY MEASURES	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

HANDLING	Use in a well-ventilated area. Ensure an eye bath and safety shower is available and ready for use. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Do not smoke, eat or drink when handling product. Always remove contaminated clothing and wash hands after handling or before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
STORAGE	Store upright in the original container in a cool, dry, well-ventilated protected area out of direct sunlight and away from foodstuffs. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Do not combine part containers of the same product. Store away from incompatible materials as listed in section 10. A water supply or source must be provided in the place of storage. Emergency eye-washes must be available.
CONTAINER	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL	Phosphoric Acid [CAS 7664-38-2].				
EXPOSURE LIMITS	Phosphoric Acid – TWA 1mg/m ³ from NZ Workplace Exposure Standards.				
BIOLOGICAL LIMITS	No information available on biological limit values for this product.				
ENGINEERING MEASURES	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances.				
PERSONAL PROTECTIVE EQUIPMENT	<table><tr><td>RESPIRATOR</td><td>If determined an inhalation risk is present. Use a P2 grade valved disposable mask which is suitable for acidic vapours and conforms to the requirements of AS1715/1716).</td></tr><tr><td>EYES</td><td>Use splash proof safety goggles, and/or if necessary an appropriate full face shield that conform to AS1336/1337.</td></tr></table>	RESPIRATOR	If determined an inhalation risk is present. Use a P2 grade valved disposable mask which is suitable for acidic vapours and conforms to the requirements of AS1715/1716).	EYES	Use splash proof safety goggles, and/or if necessary an appropriate full face shield that conform to AS1336/1337.
RESPIRATOR	If determined an inhalation risk is present. Use a P2 grade valved disposable mask which is suitable for acidic vapours and conforms to the requirements of AS1715/1716).				
EYES	Use splash proof safety goggles, and/or if necessary an appropriate full face shield that conform to AS1336/1337.				

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HANDS	Any Gloves approved for chemical hazards that conform to AS2161.
CLOTHING	Trousers, Long sleeved shirt and closed shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE	Liquid
APPEARANCE	Free flowing
COLOUR	Blue
ODOUR	Pine
pH	1.0 – 2.0
DENSITY	No Data Available.
VAPOUR PRESSURE	No Data Available.
VAPOUR DENSITY	No Data Available.
BOILING POINT	No Data Available.
FREEZING POINT	No Data Available.
SOLUBILITY	Complete in water.

10. STABILITY AND REACTIVITY

GENERAL INFORMATION	Stable under normal conditions of use.
CHEMICAL STABILITY	The substance is stable under normal environmental and foreseeable conditions during storage and handling. Corrosive liquid.
CONDITIONS TO AVOID	Avoid excessive heat, direct sunlight, moist air or water. Avoid contact with foodstuffs. Do not combine part drums of the same product. Use in a well-ventilated area.
MATERIALS TO AVOID	Oxidising agents, reducing agents, strong alkalis, sulphur trioxide, metals and sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS	This product will release hydrogen on contact with metals, which may cause explosion in the air. Emits toxic fumes under fire conditions. It will produce the virulent gas phosphorus at a high temperature. It is corrosive. Hazardous decomposition products may include Phosphine, oxides of phosphorus, and hydrogen gas.
HAZARDOUS POLYMERISATION	Hazardous polymerisation may occur.

11. TOXICOLOGICAL INFORMATION

ORAL	Phosphoric Acid LD ₅₀ – 1530mg/kg (Rat). CCID Causes burns. Harmful by ingestion. Can cause nausea, diarrhoea, corrosion, burns to mouth and oesophagus, abdominal pain, chest pain, shortness of breath
DERMAL	Phosphoric Acid LD ₅₀ – 2740mg/kg (Rabbit). CCID Harmful in contact with skin. Causes irritation and burns.

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INHALATION	Inhalation may result in spasm, inflammation and oedema of the larynx and bronchi, chemical phenomenon, and pulmonary oedema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. May be harmful by inhalation. Mists may cause lung irritation, shortness of breath, fluid in lungs.
EYE	Causes burns. Corrosive. Causes tissue destruction, permanent damage to the cornea, blindness.
CARCINOGENICITY	No information available.
MUTAGENICITY	No information available.
REPRODUCTIVE	No information available.
TARGET ORGAN	No information available.
LONG TERM	No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	LC ₅₀ 87ppm (Rainbow Trout) from EPA office of pesticide programs. Aquatic Fate: While acidity may be reduced readily by natural water hardness minerals, the phosphate may persist indefinitely. Avoid contaminating waterways.
PERSISTENCE / DEGRADABILITY	Readily Biodegradable.
MOBILITY	When spilled onto soil, phosphoric acid will infiltrate downward, the rate being greater with lower concentration because of reduced viscosity. During transport through the soil, phosphoric acid will dissolve some of the soil material carbonate-based materials. The acid will be neutralized to some degree with adsorption of the proton and phosphate ions also possible. However, significant amounts of acid will remain for transport. If reaching the groundwater table, the acid will continue to move in the direction of groundwater flow. A contaminated plume will be produced with dilution and dispersion serving to reduce the acid concentration.
ENVIRONMENTAL FATE	Do not allow drainage into sewer, streams or storm water systems.
BIOACCUMULATION POTENTIAL	Phosphate (formed when phosphoric acid is dissolved) is unlikely to bioaccumulate in most aquatic species.
ENVIRONMENTAL IMPACT	No information available.

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION	Dispose of in accordance with all local, regional and national regulations. All empty packaging should be disposed of in accordance with local, regional, and national regulations or recycled/reconditioned at an approved facility.
SPECIAL PRECAUTIONS FOR LANDFILL	Containers should be rinsed then disposed of in compliance with any requirements of the Resource Management Act for which approval should be sought from the Regional Authority.

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14. TRANSPORT INFORMATION

LAND TRANSPORT NEW ZEALAND (NZS5433)

Classified as a Dangerous Good by NZS5433:2012 for transport by Road and Rail

PROPER SHIPPING NAME	PHOSPHORIC ACID SOLUTION.
UN NUMBER	1805
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2R
EPG	37 Toxic And/or Corrosive Substances Non-Combustible
SPECIAL PROVISIONS	No Data Available

SEA TRANSPORT (IMDG)

Classified as a Dangerous Good by the International Maritime Dangerous Good Code (IMDG) for transport by sea.

PROPER SHIPPING NAME	PHOSPHORIC ACID SOLUTION
UN NUMBER	1805
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2R
EMS	FA, SB
MARINE POLLUTANT	No
SPECIAL PROVISIONS	No Data Available

AIR TRANSPORT (IATA)

Classified as a Dangerous Good by the international Air Transport Association (IATA) for transport by air

PROPER SHIPPING NAME	PHOSPHORIC ACID SOLUTION
UN NUMBER	1805
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2R
SPECIAL PROVISIONS	No Data Available

15. REGULATORY INFORMATION

ENVIRONMENTAL PROTECTION AUTHORITY (NEW ZEALAND)

Hazardous Substances & New Organisms Act 1996

APPROVAL CODE	HSR002526 – Cleaning Products (Corrosive) Group Standard 2006
HSNO CLASSIFICATIONS	8.1A, 8.2C, 8.3A
APPROVED HANDLER	Not Required
NZIOC	Listed

16. OTHER INFORMATION

REVISION NUMBER	2 – New Issue
ISSUE DATE	14 th September 2017

In any event the review and if necessary re-issue of an SDS shall be no longer than 5 years after the last date of issue

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KEY/LEGEND	AS1336/1337	Industrial Eye Protection – Metric Units (Standards Australia).
	AS1715/1716	Respiratory Protection Devices – Metric Units (Standards Australia).
	AS2161	Industrial Safety Gloves and Mittens (Standards Australia).
	CAS	Chemical Abstracts Service.
	CCID	Chemical Classification and Information Database.
	EC ₅₀	Concentration which induces a response halfway between the baseline and maximum.
	EMS	IMDG Emergency Schedule.
	EPG	Emergency Procedures Guide.
	GHS	Globally Harmonised System.
	HSNO	Hazardous Substances and New Organisms.
	IMDG	International Maritime Dangerous Goods.
	LC ₅₀	Concentration required to kill half the members of a tested population after a specified duration.
	LD ₅₀	Dosage required to kill half the members of a tested population after a specified duration.
	NOEC	No Observed Effect Concentration
	NZIOC	New Zealand Inventory of Chemicals
	SDS	Safety Data Sheet
	UN No.	UN Nations Number
	WES-Ceiling	Concentration that should not be exceeded at any time during any part of the working day
REFERENCES	ACGIH - American Conference of Governmental Industrial Hygienists	
	Workplace Exposure Standards-and Biological Exposure Indices – WorkSafe New Zealand	
	TOXNET – ChemIDPlus Database	
	IMDG Appendix B List of Marine Pollutants	
	IMDG Emergency Fire and Spill Codes	
	RTECS – Registry of Toxic Effects of Chemical Substances (maintained by US-CDC)	
	UN Recommendations on the Transport of Dangerous Goods Volume 1 (17 th Edition) Part 3	

This SDS has been prepared from current technical data and summarises at the date of issue our best knowledge of the health and safety information of the product, and how to safely handle and use the product in the work place. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the company.

Our 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 upon request.

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