

# SAFETY DATA SHEET



## C-Tec Triclean

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Tec Triclean

OTHER NAMES: C-Tec Triclean  
RECOMMENDED USE: Machine Warewashing Detergent

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

HAZARD CATEGORIES Acute Toxicity (Oral) Category 5  
Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 1

PICTOGRAMS



SIGNAL WORD

**DANGER**

HAZARD STATEMENTS

H303 – May be harmful if swallowed.  
H315 – Causes skin irritation  
H318 – Causes serious eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION

P102 – Keep out of reach of children.  
P103 – Read label before use.  
P104 – Read Safety Data Sheet before use.  
P264 – Wash hands thoroughly after handling.  
P280 – Wear protective gloves, clothing and eye/face protection.

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RESPONSE

P101 – If medical advice is needed, have product container or label at hand.  
P310 – Immediately call NZ POISON CENTRE or doctor/physician.  
P312 – Call NZ POISON CENTRE or doctor/physician if you feel unwell.  
P321 – **WASH** affected areas well with water.  
P362 – Take off contaminated clothing and wash before re-use.  
P302 + P352 – **IF ON SKIN:** Wash with plenty of soap and water.  
P305 + P351 + P338 – **IF IN EYES:** Rinse cautiously for several minutes. **REMOVE** contact lenses if present and safe to do so. Continue rinsing.  
P332 + P313 – If skin irritation occurs: Get medical advice/attention.

STORAGE

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

6.1E Substances that are acutely toxic –May be harmful.  
6.3A Substances that are irritating to the skin.  
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
Tris(2-Hydroxyethyl) Amine	C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>	102-71-6	< 10%
2-Phosphonobutane-1,2,4-tricarboxylic acid	C <sub>7</sub> H <sub>11</sub> O <sub>9</sub> P	37971-36-1	< 5%
Non-Hazardous ingredients			< 25%
Water	H <sub>2</sub> 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.

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 5 minutes.

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.

SAFETY MEASURES Potable water should be available to rinse eyes. Provide eye baths. Treat symptomatically.

PHYSICIAN NOTES Treat symptomatically based on judgement of doctor and individual reactions of patient.

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## 5. FIRE FIGHTING METHODS

GENERAL MEASURES	Clear fire area of all non-emergency 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	Use extinguishing media appropriate for surrounding fire.
HAZARDOUS PRODUCTS OF COMBUSTION	The product is non-combustible; however, the packaging material may burn to emit noxious fumes.
SPECIAL FIRE FIGHTING INSTRUCTIONS	<b>DO NOT</b> 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	No Information Available.

## 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. Increase ventilation. In the case of large spills alert fire brigade and notify them of location and nature of spill.
CLEAN UP PROCEDURES	Mechanically collect as much of the spill as possible. Absorb with sand, earth or clay. Transfer to suitable, labelled containers and dispose of promptly as hazardous waste. Spill on areas other than pavement (e.g. dirt and sand) may be handled by removing the affected soils and placing in approved containers.
CONTAINMENT	Stop leak if safe to do so. Contain spill immediately.
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 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 before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
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**STORAGE** Store upright in the original container in a locked, 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.

**CONTAINER** Store in original packaging as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**GENERAL** Tris(2-Hydroxyethyl) Amine [CAS 102-71-6].

**EXPOSURE LIMITS** Tris(2-Hydroxyethyl) Amine – TWA 5mg/m<sup>3</sup> from NZ Workplace Exposure Standards.

**BIOLOGICAL LIMITS** No information available on biological limit values for this product.

**ENGINEERING MEASURES** Adequate ventilation should be provided so that exposure limits are not exceeded.

**PERSONAL PROTECTIVE EQUIPMENT** **RESPIRATOR** Not Needed.

**EYES** Use splash proof safety goggles that conform to AS1336/1337.

**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** Clear

**ODOUR** Amine

**pH** 8.5 – 9.5

**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.

**SHELF LIFE** 2 years from manufacturing date (when stored as directed).

## 10. STABILITY AND REACTIVITY

**GENERAL INFORMATION** Stable liquid.

**CHEMICAL STABILITY** The substance is stable under normal environmental and foreseeable conditions of temperature and pressure during storage and handling.

**CONDITIONS TO AVOID** Avoid contact with foodstuffs. Do not combine part drums of the same product.

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MATERIALS TO AVOID	Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	The packaging material may burn to emit noxious fumes.

## 11. TOXICOLOGICAL INFORMATION

ORAL	Tris(2-Hydroxyethyl) Amine LD <sub>50</sub> – 6400mg/kg (Rat) BASF Acute toxicity data indicates low toxicity (virtually nontoxic after a single ingestion; virtually nontoxic after a single skin contact; the inhalation of a highly saturated vapor-air mixture represents no acute hazard).
DERMAL	Tris(2-Hydroxyethyl) Amine LD <sub>50</sub> – >2000mg/kg (Rat) BASF Causes mild irritation of the skin.
INHALATION	No Information available.
EYE	Causes serious eye damage. Can cause ulceration of the conjunctiva and cornea.
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	Tris(2-Hydroxyethyl) Amine	LC <sub>50</sub> (Fish, 96h) 11800 mg/L (Pimephales promelas) (APHA method 1980) EC <sub>50</sub> (Crustacea, 48h) 609.88 mg/L (Ceriodaphnia dubia) (ASTM 1192) LC <sub>50</sub> (Algae, 72h) 512 mg/L (Scenedesmus subspicatus) (DIN 38412 Part 9)
	2-Phosphonobutane-1,2,4-tricarboxylic acid	LC <sub>0</sub> (Fish, 24h) >1 000mg/L (Oncorhynchus mykiss) EC <sub>0</sub> (Crustacea, 24h) >300mg/L (Daphnia magna) EC <sub>0</sub> (Algae, 24h) 1300mg/L (Desmodesmus subspicatus)
PERSISTENCE / DEGRADABILITY		Readily biodegradable.
MOBILITY		High water solubility and mobility.
ENVIRONMENTAL FATE		Do not allow drainage into sewer, streams or storm water systems.
BIOACCUMULATION POTENTIAL		Low risk of bioaccumulation.
ENVIRONMENTAL IMPACT		No information available.

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## 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 before disposal. Disposal of this product must comply with any requirements of the Resource Management Act for which approval should be sought from the Regional Authority.

## 14. TRANSPORT INFORMATION

### LAND TRANSPORT NEW ZEALAND (NZS5433)

Not classified as a Dangerous Good by NZS5433:2012 for transport by Road and Rail

PROPER SHIPPING NAME	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN NUMBER	No Data Available
CLASS	No Data Available
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	No Data Available
HAZCHEM	No Data Available
SPECIAL PROVISIONS	No Data Available

### SEA TRANSPORT (IMDG)

Not classified as a Dangerous Good by the International Maritime Dangerous Good Code (IMDG) for transport by sea.

PROPER SHIPPING NAME	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN NUMBER	No Data Available
CLASS	No Data Available
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	No Data Available
HAZCHEM	No Data Available
EMS	No Data Available
MARINE POLLUTANT	No Data Available
SPECIAL PROVISIONS	No Data Available

### AIR TRANSPORT (IATA)

Not classified as a Dangerous Good by the international Air Transport Association (IATA) for transport by air

PROPER SHIPPING NAME	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN NUMBER	No Data Available
CLASS	No Data Available
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	No Data Available
HAZCHEM	No Data Available
SPECIAL PROVISIONS	No Data Available

## 15. REGULATORY INFORMATION

### ENVIRONMENTAL PROTECTION AUTHORITY (NEW ZEALAND)

Hazardous Substances & New Organisms Act 1996

APPROVAL CODE	HSR002530 – Cleaning Products (Subsidiary) Group Standard 2006
HSNO CLASSIFICATIONS	6.1E(Oral), 6.3A, 8.3A
APPROVED HANDLER	Not Required
NZIOC	Listed

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## 16. OTHER INFORMATION

REVISION NUMBER 2 – New Issue

ISSUE DATE 29<sup>th</sup> 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

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.
	EC <sub>50</sub>	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 <sub>50</sub>	Concentration required to kill half the members of a tested population after a specified duration.
	LD <sub>50</sub>	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 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  
UN Recommendations on the Transport of Dangerous Goods Volume 1 (17<sup>th</sup> 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 in particular 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.

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