

# SAFETY DATA SHEET



## C- Tec Deter Laundry Liquid

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Tec Deter Laundry Liquid

OTHER NAMES: C-Tec Deter Laundry Liquid  
RECOMMENDED USE: Cleaning Product

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 Skin Corrosion/Irritation Category 3  
Serious Eye Damage/Irritation Category 2A  
Specific Target Organ Systemic Toxicity (Repeat Exp.) Category 2

PICTOGRAMS



SIGNAL WORD

**WARNING**

HAZARD STATEMENTS

H316 – Causes mild skin irritation.  
H319 – Causes serious eye irritation.  
H373 – May cause damage to kidneys through prolonged or repeated exposure.

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## PRECAUTIONARY STATEMENTS

### PREVENTION

P103 – Read label before use.  
P104 – Read Safety Data Sheet before use.  
P260 – Do not breathe fumes.  
P264 – Wash hands thoroughly after handling.  
P280 – Wear protective gloves, clothing and eye/face protection.

### RESPONSE

P314 – Get medical advice/attention if you feel unwell.  
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.  
P337 + P313 – **IF EYE IRRITATION PERSISTS.** 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

6.3B Substances that are mildly irritating to the skin.  
6.4A Substances that are irritating to the eye  
6.9B Substances that are harmful to human target organs or systems.

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
2-Butoxy Ethanol	C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	111-76-2	< 10%
Tris(2-Hydroxyethyl) Amine	C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>	102-71-6	< 5%
Preservative based on isothiazolinones	Mixture	2634-33-5, 2682-20-4	< 0.5%
Non-Hazardous ingredients			20 - 30%
Water	H <sub>2</sub> O	7732-18-5	Balance

## 4. FIRST AID MEASURES

### INGESTION

**DO NOT** induce vomiting. Give water to drink immediately to dilute. Contact Poisons Centre.

### EYE CONTACT

**IMMEDIATELY** flush eyes with copious amounts of water for at least 10 minutes while holding eyelids open. Take care not to rinse contaminated water into the non-affected eye.

### SKIN CONTACT

**REMOVE** contaminated clothing. **FLUSH** the contaminated skin thoroughly with water and wash well with soap for at least 2 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 or skin. Provide eye baths and safety showers. Treat symptomatically.

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PHYSICIAN NOTES

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

## 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 firefighting water to reach waterways, drains or sewers.
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 accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt.
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 down spill area with water.
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	Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. 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 cool, dry, well-ventilated protected area out of direct sunlight and away from incompatible materials and 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** 2-Butoxy Ethanol [CAS 111-76-2].  
Tris(2-Hydroxyethyl) Amine [CAS 102-71-6].  
Isopropyl Alcohol [CAS 67-63-0].

**EXPOSURE LIMITS** 2-Butoxy Ethanol – TWA-Ceil 25ppm from NZ Workplace Exposure Standards.  
Tris(2-Hydroxyethyl) Amine – TWA 5mg/m<sup>3</sup> from NZ Workplace Exposure Standards.  
Isopropyl Alcohol – TWA 983mg/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	Not Needed.
CLOTHING	Trousers, Long sleeved shirt and closed shoes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE	Liquid
APPEARANCE	Viscous
COLOUR	Blue
ODOUR	None
pH	8.5 – 9.5
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 under normal conditions of use.

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

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CONDITIONS TO AVOID	Avoid contact with foodstuffs. Do not combine part drums of the same product
MATERIALS TO AVOID	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	The packaging material may burn to emit noxious fumes.

## 11. TOXICOLOGICAL INFORMATION

ORAL	2-Butoxy Ethanol LD <sub>50</sub> – 1414mg/kg (Guinea Pig) OECD Guideline 401 Tris(2-Hydroxyethyl) Amine LD <sub>50</sub> – 6400mg/kg (Rat) BASF Acute toxicity data indicate low toxicity virtually nontoxic after a single ingestion
DERMAL	2-Butoxy Ethanol LD <sub>50</sub> – >2000mg/kg (Guinea Pig).OECD Guideline 402 Tris(2-Hydroxyethyl) Amine LD <sub>50</sub> – >2000mg/kg (Rabbit) BASF Acute toxicity data indicate low toxicity virtually nontoxic after a single skin contact
INHALATION	2-Butoxy Ethanol – LC <sub>50</sub> – 3.1mg/L (Guinea Pig) OECD Guideline 403 High concentrations – Inhalation can cause pneumonia and/or pulmonary oedema, but only after signs of corrosive effects on the mucous membranes of the eyes and/or the upper respiratory tract.
EYE	This material can cause minor irritation to ocular tissue.
CARCINOGENICITY	No information available.
MUTAGENICITY	No information available.
REPRODUCTIVE	No information available.
TARGET ORGAN	No adverse effects were observed after repeated exposure in animal studies.
LONG TERM	No information available.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY	2-Butoxy Ethanol:	LC <sub>50</sub> (Fish, 96 h): 1474 mg/L (Oncorhynchus mykiss) (OECD Guideline 203) EC <sub>50</sub> (Algae, 72 h): 911 mg/L (Pseudokirchneriella subcapitata) (OECD Guideline 201) EC <sub>50</sub> (Crustacea, 48 h): 1550 mg/L (Daphnia magna) (OECD Guideline 202) NOEC (Algae, 72 h): >280 mg/L (Pseudokirchneriella subcapitata) (OECD Guideline 201) NOEC (Crustacea, 21 d): >100 mg/L (Daphnia magna) (OECD Guideline 211)
	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)
PERSISTENCE / DEGRADABILITY		Readily Biodegradable.
MOBILITY		High water solubility and mobility.
ENVIRONMENTAL FATE		Do not allow drainage into sewer, streams or storm water systems.

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BIOACCUMULATION POTENTIAL Low risk of Bioaccumulation.

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 and disposed of in line 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  
EPG 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  
EPG No Data Available  
SPECIAL PROVISIONS No Data Available

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## 15. REGULATORY INFORMATION

### ENVIRONMENTAL PROTECTION AUTHORITY (NEW ZEALAND)

Hazardous Substances & New Organisms Act 1996

APPROVAL CODE	HSR002530 – Cleaning Products (Subsidiary Hazard) Group Standard 2006
HSNO CLASSIFICATIONS	6.3B, 6.4A, 6.9B
APPROVED HANDLER	Not Required
NZIOC	Listed

## 16. OTHER INFORMATION

REVISION NUMBER	2 – New Issue
ISSUE DATE	22 <sup>nd</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 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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