

SAFETY DATA SHEET



C-Tec Reviver

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Tec Reviver

OTHER NAMES: Reviver

RECOMMENDED USE: Cutlery Pre-soaker, Tea pot stain remover, Laundry Soak

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

GLOBALY 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
Acute Toxicity (Inhalation)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Irritation	Category 2A
Aquatic Toxicity (Acute)	Category 3
Ecotoxic to Terrestrial Vertebrates	

PICTOGRAMS



SIGNAL WORD

WARNING

HAZARD STATEMENTS

H303 – May be harmful if swallowed.
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H402 – Harmful to aquatic life.
H433 -Harmful to terrestrial vertebrates.

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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.
P261 – Avoid breathing mist/spray.
P264 – Wash hands thoroughly after handling.
P271 – Use only outdoors in a well-ventilated area.
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.
P312 – Call NZ POSION CENTRE or doctor/physician if you feel well.
P321 – **WASH** affected areas well with water.
P331 – Do **NOT** induce vomiting.
P362 – Take off contaminated clothing and wash before re-use.
P302 + P352 – **IF ON SKIN:** Wash with plenty of soap and water.
P304 + P340 – **IF INHALED:** 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.
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

6.1E Substances that are acutely toxic –May be harmful.
6.1D Substances that are acutely toxic - Harmful.
6.3A Substances that are irritating to the skin.
6.4A Substances that are irritating to the eye.

Environmental Hazard

9.1D Substances that are slightly harmful to the aquatic environment.
9.3C Substances that are harmful to terrestrial vertebrates.

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
Sodium Carbonate	Na ₂ CO ₃	497-19-8	15 – 35%
Sodium Carbonate Peroxyhydrate	Na ₂ CO ₃ •1.5H ₂ O ₂	15630-89-4	15 – 35%
Surfactant	R-SO ₃ Na (R=C ₁₀ -C ₁₃)	68411-30-3	1 – 5%
Non-Hazardous ingredients			Balance to 100%

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4. FIRST AID MEASURES

INGESTION	DO NOT induce vomiting. Give water to rinse mouth. Contact NZ POISON CENTRE or doctor if you feel unwell.
EYE CONTACT	IMMEDIATELY flush eyes with copious amounts of water for at least 10 minutes while holding eyelids open. Remove contact lenses if easy to do so. Take care not to rinse contaminated water into the non-affected eye.
SKIN CONTACT	REMOVE contaminated clothing. FLUSH the contaminated skin thoroughly with water for at least 5 minutes. Wash contaminated clothing before reuse.
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. Call NZ POISON CENTRE or doctor if you feel unwell.
SAFETY MEASURES	Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers. Treat symptomatically.
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	Under extreme heat may produce oxides of carbon and may release oxygen to support/accelerate combustion. The packaging material may also burn to emit noxious fumes.
SPECIAL FIRE FIGHTING INSTRUCTIONS	DO NOT 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. Transfer to suitable, labelled containers and dispose of in an approved manner. Wash away very small spills with water.
CONTAINMENT	Stop leak if safe to do so. Contain spill immediately.
DECONTAMINATION	Wash down spill area with water.

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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	Ensure an eye bath is available and ready for use. Avoid contact with water or excess humidity. Do not breathe dust. Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. 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.
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. Emergency showers and eye-washes must be available.
CONTAINER	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL	Particulates not otherwise classified.	
EXPOSURE LIMITS	Inspirable Dust – WES-TWA 10mg/m ³ Respirable Dust – WES-TWA 3mg/m ³ All data from NZ Workplace Exposure Standards	
BIOLOGICAL LIMITS	No information available on biological limit values for this product.	
ENGINEERING MEASURES	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.	
PERSONAL PROTECTIVE EQUIPMENT	RESPIRATOR	If determined an inhalation risk is present. Use a P2 grade disposable mask which conforms to the requirements of AS1715/1716).
	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	Powder
APPEARANCE	Granular
COLOUR	Off White
ODOUR	None

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pH	10.0 – 11.0 (1% solution)
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.
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	Sodium Carbonate	LD ₅₀ – 4090mg/kg (Rat) – CCID
	Sodium Percarbonate	LD ₅₀ – 1034mg/kg (Rat) – CCID
	Surfactant	LD ₅₀ – 1086mg/kg (Rat) - CCID
	May cause gastrointestinal irritation, nausea, vomiting, or diarrhoea.	
DERMAL	Harmful in contact with skin. Product is absorbed through the skin. Symptoms include: Redness.	
INHALATION	Sodium Carbonate	LC ₅₀ – 2.3mg/L (Rat) – CCID
	May cause upper respiratory tract, lung, and irritation to mucus membranes.	
EYE	May cause severe irritation, redness, or swelling.	
CARCINOGENICITY	No information available.	
MUTAGENICITY	No information available.	
REPRODUCTIVE	No information available.	
TARGET ORGAN	Long-term exposure causes damage to liver. No information available.	
LONG TERM	No information available.	

12. ECOLOGICAL INFORMATION

ECOTOXICITY	Sodium Percarbonate	LC ₅₀ (Fish, 96 h): 70.7 mg/L (Pimephales promelas) EC ₅₀ (Crustacea, 48h): 4.9 mg/L (Daphnia pulex) LD ₅₀ (Vertebrate): 1034 mg/kg (Rat)
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Surfactant LC₅₀ (Fish): 3.5 mg/L (Pimephales promelas)
EC₅₀ (Crustacea): 4.1 mg/L (Daphnia magna)
NOEC (Crustacea, 21d): 0.3 mg/L
IC₅₀ (Algae): 7.8mg/L (Scenedesmus subspicatus)
LD50 (Vertebrate): 1086 mg/kg (Rat)
All data from NZ Chemical Classification and Information Database

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

No information available.

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
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

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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

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	6.1E(Oral), 6.1D(Inhal.), 6.3A, 6.4A, 9.1D, 9.3C
APPROVED HANDLER	Not Required
NZIOC	Listed

16. OTHER INFORMATION

REVISION NUMBER	1 – New Issue
ISSUE DATE	15 th August 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 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.
	LOAEC	Lowest Observable Adverse Effect Concentration.
	NOAEC	No Observed Adverse Effect Concentration.
	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.

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REFERENCES

CCID – Chemical Classification and Identification Database. (EPA New Zealand)
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 (17th 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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