

C-Tec Conquer

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Tec Conquer

OTHER NAMES: C-Tec Conquer RECOMMENDED USE: Concentrated Laundry Builder

0800 764 766

SUPPLIER NAME: 2CARE PRODUCTS ADDRESS: 9 Donnor Place Mt Wellington AUCKLAND Phone: 0800 753 753

Fax: (09) 574 5999

Emergency Telephone:

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	Acute Toxicity (Oral)	Category 4
	Acute Toxicity (Skin)	Category 5
	Corrosive to Metals	Category 1
	Skin Corrosion/Irritation	Category 1B
	Serious Eye Damage/Irritation	Category 1
	Aquatic Toxicity (Acute)	Category 3
	Ecotoxic to Terrestrial Vertebrates	

PICTOGRAMS

SIGNAL WORD

DANGER

HAZARD STATEMENTS

- H290 May be corrosive to metals. H302 – Harmful if swallowed.
- H313 May be harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H402 Harmful to aquatic life.
- H433 Harmful to terrestrial vertebrates.

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PRECAUTIONARY STATEMENTS

PREVENTION	P102 – Keep o	ut of reach of children.	
	P103 – Read la	bel before use.	
	P104 – Read Sa	afety Data Sheet before use.	
	P234 – Keep o	nly in original container.	
	P260 – Do not	breathe fumes.	
	P264 – Wash h	ands thoroughly after handling.	
	P270 – Do not	eat, drink or smoke when using this product.	
		elease to the environment.	
	P280 – Wear p	rotective gloves, clothing and eye/face protection.	
RESPONSE	P101 – if medi	cal advice is needed, have product container or label at hand.	
	P310 – IMMED	DIATELY call a POISON CENTRE or Doctor/Physician.	
	P312 – Call NZ	POISON CENTRE or doctor/physician if you feel unwell.	
	P321 – IF SWA	LLOWED, give water to dilute and contact 111 immediately.	
	P330 – Rinse m	nouth.	
	P331 – Do NO T	T induce vomiting.	
		ontaminated clothing before re-use	
		spillage to prevent material damage.	
	P301 + P312 -	IF SWALLOWED: Call NZ POISON CENTRE or doctor/physician if you feel unwell.	
		P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
		+ P353 – IF ON SKIN: Remove all affected clothing IMMEDIATELY. Rinse skin with	
	water/shower.	-	
	-	- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for	
	breathing.		
	-	- P338 – IF IN EYES: Rinse cautiously for several minutes. REMOVE contact lenses if	
		fe to do so. Continue rinsing.	
STORAGE	P405 – Store lo	ocked up.	
	P406 – Store ir	n corrosive resistant plastic container with a resistant inner liner.	
DISPOSAL		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/re	cycling information.	
	ENVIRONN	IENTAL PROTECTION AUTHORITY (NEW ZEALAND)	
HSNO CLASSIFICATIONS	Toxicity Hazard	ds	
	6.1D (Oral)	Substances that are acutely toxic – Harmful.	
	6.1E (Skin)	Substances that are acutely toxic –May be harmful.	
	8.1A	Substances that are corrosive to metals.	
	8.2B	Substances that are corrosive to dermal tissue UN PGII	
	8.3A	Substances that are corrosive to ocular tissue.	
	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 spec	ific 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.

POISONS SCHEDULE (AUS): S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Hydroxide	NaOH	1310-73-2	< 50%
2-Phosphonobutane-1,2,4-tricarboxylic acid	C7H11O9P	37971-36-1	< 5%
Other ingredients			< 10%
Water	H ₂ O	7732-18-5	Balance

4. FIRST AID MEASURES

- INGESTIONDO NOT induce vomiting. If person is conscious give water to drink immediately to dilute the caustic
soda. Seek URGENT medical attention.
- EYE CONTACTIMMEDIATELY flush eyes with copious amounts of water for at least 30 minutes while holding
eyelids open. Take care not to rinse contaminated water into the non-affected eye. Washing must
be started within 10 seconds of contact and continued for 30 minutes to prevent permanent injury.
Seek immediate medical attention. An Ophthalmology consultation is a must.
- SKIN CONTACT**REMOVE** contaminated clothing. **IMMEDIATELY** flush the contaminated skin thoroughly with water
for at least 15 minutes. Seek medical attention **URGENTLY** if burning or irritation persists.
- INHALATIONSeek URGENT medical help. Remove victim from exposure to fresh air. Provide emergency airway
support. Give 100% humidified supplemental oxygen with artificial respiration. TRANSPORT to
emergency medical facility without delay.
- SAFETY MEASURES Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers. Treat symptomatically.
- PHYSICIAN NOTES For acute or short-term repeated exposures to highly alkaline materials: Respiratory stress is uncommon but present occasionally because of soft tissue oedema. Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary. Oxygen is given as indicated. The presence of shock suggests perforation and mandates an intravenous line and fluid administration. Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue. Alkalis continue to cause damage after exposure.

Persons with lung diseases may be at an increased risk due to the toxic effects of this chemical on these organs.

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 corrosive fumes. Contact with metals may liberate hydrogen gas which is extremely flammable.

SPECIAL FIRE FIGHTING**DO NOT** allow firefighting water to reach waterways, drains or sewers. Store fire-fighting water for
treatment.

PERSONAL PROTECTIVEFire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and
protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves) or
chemical splash suit. Please note: Structural fire fighters protective clothing is recommended for fire
situations only, it is not effective in spills.

HAZCHEM CODE

2W

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. Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.
	CAUTION: Contact with metals may liberate hydrogen gas which is extremely flammable.
CLEAN UP PROCEDURES	Mechanically collect as much of the spill as possible. Absorb with sand, earth or clay. Transfer to suitable, labelled corrosion resistant 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	Dilute acid (preferably acetic acid may be used to neutralise residual traces of caustic soda) after flushing.
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 and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale vapours. Avoid prolonged or repeated exposure. Do not smoke, eat or drink when handling product. Product can react violently with acids. Emergency showers and eye-washes must be available.

STORAGE Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store away from aluminium, tin, zinc and alloys (bronzes), chrome and lead. Protect from damp and kept apart from acids, halogenated hydrocarbons, nitroparaffins, etc. The floor must be waterproof and anti-slip. A water supply or source must be provided in the place of storage. Emergency showers and eye-washes must be available. Keep out of reach of children.

CONTAINER

Store in original packaging as approved by manufacturer. Do not store in Aluminium or galvanised containers nor use die cast zinc or aluminium fittings (e.g. valves and bungs.)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL	Sodium Hydroxide – [CAS 1310-73-2]
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EXPOSURE LIMITS TWA-Ceiling 2mg/m³ from New Zealand 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. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.
- PERSONAL PROTECTIVE
EQUIPMENTRESPIRATORIf determined an inhalation risk is present. Use a P2 grade disposable mask which
conforms to the requirements of AS1715/1716).EYESUse splash proof safety goggles, and/or if necessary an appropriate full-face
shield that conform to AS1336/1337.HANDSAny 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	Odourless
рН	14.0
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
SHELF LIFE	2 years from manufacturing date (when stored as directed)

10. STABILITY AND REACTIVITY

GENERAL INFORMATION Corrosive 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.

MATERIALS TO AVOID Highly exothermic reaction with strong acids, aluminium, tin, zinc and their alloys, copper, lead, etc, acetic acid, allyl chloride, chlorine trifluoride, chloroform, methylic alcohol, chloronitrotoluene, chlorosulphonic acid, glyoxal, cyanohydrin, hydrochloric acid, hydrofluoric acid, hydroquinone, nitric acid, sulphuric acid and oleum, nitropropane, phosphorous, propiolactone, phosphorous pentoxide, tetrachlorobenzene, tetrahydrofuran, nitromethane and nitroparaffins.

Caustic soda solutions may react readily with various reducing sugars (i.e.: fructose, galactose, maltose, dry whey solids) to produce carbon monoxide.

HAZARDOUSThe packaging material may burn to emit noxious fumes. Reacts with aluminium, tin, zinc and theirDECOMPOSITIONalloys, copper, lead, etc. giving off hydrogen. When the product decomposes, toxic sodium oxidePRODUCTSgases are given off.

11. TOXICOLOGICAL INFORMATION

ORAL	Sodium Hydroxide – LD _{LO} – 500mg/kg (Rabbit 24hr). Causes severe burns. Burns to the mouth, oesophagus, can cause intestinal perforation.
DERMAL	Sodium Hydroxide – LD_{LO} – 500mg/24hr (Rabbit). Causes severe burns. Intense burning and ulcers penetrating the skin.
INHALATION	Causes severe burns. Irritation of the respiratory system.
EYE	Sodium Hydroxide – LD _{LO} – 50mg/24hr (Rabbit) Causes serious eye damage. Can cause ulceration of the conjunctiva and cornea.
CARCINOGENICITY	The substance did not induce mutagenicity in in vitro and in vivo studies (EU RAR, 2007). Systemic carcinogenicity is not expected to occur because the substance is not expected to be systemically available in the body under normal handling and use conditions.
MUTAGENICITY	Both the in vitro and the in vivo genetic toxicity tests indicated no evidence of mutagenic activity. Furthermore, the substance is not expected to be systemically available in the body under normal handling and use conditions and for this reason additional testing is considered unnecessary (EU RAR, 2007).
REPRODUCTIVE	The substance is not expected to be systemically available in the body under normal handling and use conditions and for this reason it can be stated that the substance will not reach the foetus nor reach male and female reproductive organs
TARGET ORGAN	Repeated exposure: Corrosive substance. In addition, the substance is not expected to be systemically available in the body under normal handling and use conditions and therefore systemic effects of the substance after repeated exposure are not expected to occur.
LONG TERM	No information available.
12. ECOLOGICAL INF	ORMATION

ECOTOXICITYSodium Hydroxide $LC_{50} - 45.4 mg/L$ (Onchorhyncus mykiss - 96hr). $EC_{50} - 40.38 mg/L$ (Ceriodaphnia dubia - 48hr).

PERSISTENCE / DEGRADABILITY	Readily biodegradable. Other relevant information Abiotic degradation: NaOH is a strong alkaline substance that dissociates completely in water to Na ⁺ and OH ⁻ . High water solubility and low vapour pressure indicate that NaOH will be found predominantly in aquatic environment. This implies that it will not adsorb on particulate matter or surfaces. Atmospheric emissions as aerosols are rapidly neutralized by carbon dioxide and the salts will be washed out by rain.
MOBILITY	High water solubility and mobility.
ENVIRONMENTAL FATE	Do not allow drainage into sewer, streams or storm water systems.
BIOACCUMULATION POTENTIAL	Sodium Hydroxide does not bioaccumulate in organism. In addition, sodium is a naturally occurring element that is prevalent in the environment and to which organism are exposed regularly for which they have some capacity to regulate the concentration in the organism.
ENVIRONMENTAL IMPACT	No information available.

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATIONDispose 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 LANDFILLContainers should be triple rinsed then rinsed with dilute hydrochloric acid to neutralise
sodium/potassium hydroxide residues which should be added slowly by trained staff wearing proper
protection.
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)

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

PROPER SHIPPING NAME UN NUMBER	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (contains Sodium hydroxide) 3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	II
HAZCHEM	2W
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	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (contains Sodium hydroxide)
UN NUMBER	3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK PACKAGING GROUP	No Data Available
HAZCHEM	2W
EMS	F-A. S-B
MARINE POLLUTANT	No Data Available
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 UN NUMBER	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (contains Sodium hydroxide) 3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	II
HAZCHEM	2W
EPG	37 Toxic and/or Corrosive Substances Non-Combustible
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	6.1D (Oral), 6.1E (Dermal), 8.1A, 8.2B, 8.3A, 9.1D, 9.3C
APPROVED HANDLER	Not Required
NZIOC	Listed

16. OTHER INFORMATION

REVISION NUMBER1 - New IssueISSUE DATE14th August 2017In 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 AS1715/1716 AS2161 CAS	Industrial Eye Protection – Metric Units (Standards Australia). Respiratory Protection Devices – Metric Units (Standards Australia). Industrial Safety Gloves and Mittens (Standards Australia). Chemical Abstracts Service.
	EC50	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.
	LDLO	Lowest dosage required to produce death in a given species under controlled conditions.
	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 (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 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.

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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