SAFETY DATA SHEET

C-Tec New Ease

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	C-Tec New Ease
OTHER NAMES:	C-Tec New Ease
RECOMMENDED USE:	Hard Surface Cleaner
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.

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. 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 a **POISON 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. P304 + P340 – **IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing. P301 + P330 + P331 – **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 – **IF ON SKIN:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 plastic container with a resistant inner liner.
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.

POISONS SCHEDULE (AUS): No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Anionic Surfactant		68584-22-5	< 5%
Sodium Metasilicate Pentahydrate	$Na_2SiO_3 \bullet 5H_2O$	10213-79-3	5 - 10%
Non-Hazardous ingredients			< 10%
Water	H_2O	7732-18-5	Balance

4. FIRST AID MEASURES

INGESTION	**DO NOT** induce vomiting. If person is conscious give water to drink immediately to dilute. Seek urgent medical attention.
EYE CONTACT	**IMMEDIATELY** 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. 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.
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. Seek immediate medical assistance if the effects persist Provide emergency. If needed 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	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. Contact with metals may liberate hydrogen gas which is extremely flammable.
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	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 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. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Do not smoke, eat or drink when handling product. When used in its various applications, the product must be prevented from coming into uncontrolled direct contact with other products such as acids and metals. 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. 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.
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	No information available.	
EXPOSURE LIMITS	No information available.	
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 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, and/or if necessary an appropriate full face shield 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	Blue
ODOUR	Ether-like
pH	13.0 – 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	Incompatible with ammonium salts, aluminium, tin, and zinc.
HAZARDOUS DECOMPOSITION PRODUCTS	The packaging material may burn to emit noxious fumes. Contact with metals may liberate hydrogen gas.

11. TOXICOLOGICAL INFORMATION

ORAL	Sodium Metasilicate – LD_{50} – 1280mg/kg (Rat 10% solution). – CCID Benzenesulphonic acid, C10-16-alkyl derivative – LD50 – 1460mg/kg (Rat) – CCID Causes severe burns. Burns to the mouth, oesophagus, can cause intestinal perforation
DERMAL	Causes severe skin burns.
INHALATION	Causes severe irritation of the respiratory system.
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	Sodium Metasilicate LC_{50} 2320ppm (Gambusia affinis – 96hr). LC_{50} 247ppm (Daphnia magna – 96hr).
PERSISTENCE / DEGRADABILITY	This material is not persistent in aquatic systems, but its high pH when undiluted or un-neutralized is acutely harmful to aquatic life. Diluted material yields dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD
MOBILITY	High water solubility and mobility.
ENVIRONMENTAL FATE	Do not allow drainage into sewer, streams or storm water systems.
BIOACCUMULATION POTENTIAL	This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Where abnormally low natural silica concentrations exist (less than 0.1 ppm), dissolved silica may be a limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded.
ENVIRONMENTAL IMPACT	Neither silica nor sodium will appreciably bioconcentrate up the food chain.

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 triple rinsed then rinsed with dilute hydrochloric acid to neutralise sodium 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)

PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Sodium Metasilicate)
UN NUMBER	3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
SPECIAL PROVISIONS	No Data Available

SEA TRANSPORT (IMDG)

PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Sodium Metasilicate)
UN NUMBER	3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
EMS	F-A, S-B
MARINE POLLUTANT	Listed
SPECIAL PROVISIONS	No Data Available

AIR TRANSPORT (IATA)

PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Sodium Metasilicate)
UN NUMBER	3266
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
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	1 – New Issue
ISSUE DATE	14th June 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.
	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.