SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**C-Tec Stonethane**
Other Names:	C-Tec Stonethane
Product Use:	Concrete and Stone Finish
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	**2CARE PRODUCTS**
Address:	9 Donnor Place Mt Wellington Auckland
Telephone:	0800 753 753
Fax:	09 574 5999
Emergency No:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	16 June 2022 v2

Section 2. Hazards Identification

This substance is **NOT** hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
N-Methyl-2-Pyrrolidone	1 - 5	872-50-4
2-(2-Methoxyethoxy) Ethanol	1 - 5	111-77-3
Tris(2-Butoxyethyl) Phosphate	1 – 5	78-51-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Continue rinsing. Seek medical attention if needed.
If on Skin	Remove contaminated clothing. Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Do not induce vomiting. Give water to drink immediately to dilute. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and

keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable
Inhalation: Not applicable
Skin: Not applicable
Eye: Not applicable

Notes to Doctor: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Safety measures: Potable water should be available to rinse eyes. Provide eye baths. Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Decomposition products may include the following materials carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.
Suitable Extinguishing media	Use extinguishing media appropriate for surrounding fire.
Precautions for firefighters and special protective clothing	Wear positive pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (including Helmet, Coat, Trousers, Boots and Gloves) or chemical splash suit. DO NOT allow spillage or firefighting water to reach waterways, drains or sewers. 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.
HAZCHEM CODE	**None allocated**

Section 6. Accidental Release Measures

General Response Procedures:
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. In the case of large spills alert fire brigade and notify them of location and nature of spill.

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.

Clean Up Procedures:
Stop leak if safe to do so. Contain spill immediately. 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. Wash area down with water and collect washings for disposal. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Wear protective clothing as detailed in Section 8.
- Observe good personal hygiene practices and recommended procedures.
- 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 after handling or before eating, drinking, smoking or using the toilet.
- Wash contaminated clothing and other protective equipment before storage or re-use.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store upright in the original container in a cool, dry, well-ventilated protected area out of direct sunlight 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.
- Store in original packaging as approved by manufacturer.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
1-Methyl-2-pyrrolidone	[872-50-4]	25	103	75	309

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

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 Protection Equipment

Eyes	Use splash proof safety goggles that conform to AS1336/1337.
Hands	Any Gloves approved for chemical hazards that conform to AS2161.
Skin	Trousers, Long sleeved shirt and closed shoes.
Respiratory	If determined an inhalation risk is present. Use a P2 grade disposable mask which conforms to the requirements of AS1715/1716).

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Milky White
Odour	Bland
Odour Threshold	Not available
pH	8.4 – 8.9
Boiling Point	100^0C
Melting Point	Not available
Freezing Point	0^0C
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available

Vapour Pressure	<4 kPa (<30mm Hg) room temperature.
Vapour Density	<1 [Air = 1]
Density	1.03 g/cm^3
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Shelf life	2 years from manufacturing date (when stored as directed).
VOC Content	9%

Section 10. Stability and Reactivity

Stability of Substance	The substance is stable under normal environmental and foreseeable conditions of temperature and pressure during storage and handling.
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Avoid contact with foodstuffs. Do not combine part drums of the same product.
Incompatible Materials	No data available.
Hazardous Decomposition Products	The packaging material may burn to emit noxious fumes.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

ORAL

N-methyl-2-Pyrrolidone – LD_{50} – 3914mg/kg (Oral-Rat) – Supplier SDS
Tris(2-Butoxyethyl) Phosphate – LD_{50} – 3g/kg (Oral-Rat) – Supplier SDS
May be irritating to mouth, throat and stomach.

DERMAL	N-methyl-2-Pyrrolidone – LD_{50} – 8g/kg (Dermal-Rabbit) – Supplier SDS Tris(2-Butoxyethyl) Phosphate – LD_{50} – 9404mg/kg (Dermal-Rabbit) – Supplier SDS No known significant effects or critical hazards.
INHALATION	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
EYE	N-methyl-2-Pyrrolidone – LD_{50} – 100mg (Rabbit) 2-(2-Methoxyethoxy) Ethanol – LD_{50} – 500mg/24hr (Rabbit) Tris(2-Butoxyethyl) Phosphate – LD_{50} – 500mg/24hr (Rabbit) Causes eye irritation.

Section 12. Ecotoxicological Information

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data for product. See below for components.
Mobility	No data available.
Other adverse effects	No data available.

BIOACCUMULATION POTENTIAL (Components)

	Log P_{ow}	BCF	Potential
N-methyl-2-Pyrrolidone	-0.46		Low
2-(2-Methoxyethoxy)Ethanol	-0.47		Low
Tris(2-Butoxyethyl) Phosphate	3.75	5.8	Low

ECOTOXICITY

N-methyl-2-Pyrrolidone
LC_{50} – 832ppm Lepomis macrochirus 96h
LC_{50} – 1.23ppm Daphnia magna 48h
2-(2-Methoxyethoxy)Ethanol
LC_{50} – 960ppm Onchorhynchus mykiss 96h
EC_{50} – 930ppm Daphnia magna 48h
Tris(2-Butoxyethyl) Phosphate
LC_{50} – 11200µg/L Pimephales promelas 96h

Section 13. Disposal Considerations

Disposal Method:
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.

Precautions or methods to avoid: 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.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16 Other Information

Glossary

Cat	Category
EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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.

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