

Section 1 - Identification of Chemical Product And Company

CDK STONE NZ Ltd 2/40 Canaveral Drive Rosedale Auckland NEW ZEALAND	Emergency Phone: NZ Emergency Services:	0800 764766 111
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Substance:

Trade Name: **Superior E1010 Part A 1:1 Knife Grade**

Product Use:

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as:

HAZARDOUS SUBSTANCE: according to the criteria of HSNO.
REGULATED under NZS5433:2007 Transport of Dangerous Goods on Land

HSNO Signal Word: **WARNING**

Emergency Overview

Physical Description & colour: Clear viscous liquid

Odour: Odourless

Hazard Classification:

Acute Oral Toxicity	Category 4	6.1D
Skin Effects	Category 2	6.3A
Eye Effects	Category 2	6.4A
Skin Sensitisation	Category 1	6.5B
Chronic Aquatic Hazard	Category 2	9.1B

Signal Word **WARNING**

Hazard Statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction ¹
H411	Toxic to aquatic life with long lasting effects



Precautionary Statements

Prevention

P261	Avoid breathing fumes/ vapours
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P272	Contaminated work clothing should not be allowed out of the workplace
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment

Response

P301+330+312	IF SWALLOWED: Rinse mouth. Call a POISON CENTRE/ doctor/ physician/ first aider if you feel unwell
P303+361+352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water and soap.
P332+313	If skin irritation occurs. Get medical attention
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P337+313	If eye irritation persists. Get medical attention
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P308+311	If exposed or concerned. Call a POISON CENTRE/ doctor/ physician/ first aider
P391	Collect spillage

Storage

Disposal

P501	Dispose of content/ container to an authorised hazardous or special waste collection point in accordance with local regulation
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Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc.%
Epoxy Resin	25068-38-6	80 – 90
Propylene Carbonate	108-32-7	1 – 10
Trimethylolpropane triacrylate	15625-89-5	1 – 10
Fumed silica	67762-90-7	

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764766 from anywhere in New Zealand (13 1126 in Australia) and is available at all times. Have this SDS or product label with you when you call.

Eye Contact:

Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact:

Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation:

remove from contaminated area. Other measures are generally unnecessary

Ingestion:

IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the meantime, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on

left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Note to Physician: Treat symptomatically

Section 5 - Fire Fighting Measures

Extinguishing Media:	Preferred extinguishing media are water spray or fog, dry chemical, BCF or foam
Fire and Explosion Hazards:	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive.
Fire Fighting:	Alert Fire & Emergency New Zealand and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Equipment should be thoroughly decontaminated after use
Fire Decomposition:	Carbon monoxide (CO), Carbon dioxide (CO ₂) and other pyrolysis products typical of burning organic material.

Section 6 - Accidental Release Measures

Minor Spills:	Environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills:	Environmental hazard – contain spillage. Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

Section 7 - Handling and Storage

Handling:	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Storage:	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure limits

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
67762-90-7	Fumed silica	10 mg/m ³	

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Engineering Controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh

Personal Protective Equipment

Eye Protection:



Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly

Skin Protection:



Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Overalls. PVC Apron. PVC protective suit may be required if exposure severe.

Protective Material Types:

We suggest that protective clothing be made from the following materials:

PE/EVAL/PE

PVA

Teflon

Respirator:



Type A-P filter of sufficient capacity

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear viscous liquid
Odour:	Odourless
pH:	6 - 8
Vapour Pressure:	4.6 x 10 ⁻⁸ Pa
Relative Vapour Density:	not available

Viscosity	11500 – 13500 cP
Boiling Point:	202 °C
Volatiles:	negligible
Water Solubility:	immiscible
Freezing/Melting Point:	no data
Specific Gravity:	1.17 g/ml
Flashpoint	266 °C
Auto ignition temp:	no data °C
Evaporation Rate:	not available
Coeff Octanol/water distribution	no data

Section 10 - Stability and Reactivity

Stability	Product is considered stable
Conditions to Avoid:	Avoid contact with moisture. Reacts with mild steel, galvanized steel / zinc producing hydrogen gas which may form an explosive mixture with air. Contact with alkaline materials liberates heat.
Incompatibilities:	Segregate from alkalis, oxidising agents and chemicals readily decomposed by acids ie cyanides, sulfides, carbonates. Avoid reaction with oxidizing agents, ie nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result
Polymerisation:	This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Inhaled:

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. No report of respiratory illness in humans as a result of exposure to multifunctional acrylates has been found.

Ingestion

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

Skin Contact

This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. All multifunctional acrylates (MFA) produce skin disorders and sensitise the skin and inflammation. Vapours generated by the heat of milling may occur in sufficient concentration to produce inflammation. Bisphenol A diglycidyl ether (BADGE) may produce contact dermatitis characterized by redness and swelling, with weeping followed by crusting and scaling. A liquid resin with a molecular weight of 350 produced severe skin irritation when applied daily for 4 hours over 20 days. Skin contact with reactive diluents may cause slight to moderate irritation with local redness. Repeated or prolonged skin contact may cause burns. Open cuts, abrasions or irritated skin should not be exposed to this material. Entry into the bloodstream, through for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye Contact

This material can cause eye irritation and damage in some persons. Eye contact with reactive diluents may cause slight to severe irritation with the possibility of chemical burns or moderate to severe damage to the cornea.

Chronic Health Effects

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Bisphenol A diglycidyl ethers (BADGEs) produce a sensitization dermatitis (skin inflammation) characterized by eczema with blisters and papules, with considerable itching of the back of the hand. This may persist for 10-14 days after withdrawal from exposure and recur immediately on re-exposure. The dermatitis may last longer following each exposure but is unlikely to become more intense. Lower molecular weight species produce sensitization more readily. Animal testing has shown an increase in the development of some tumours.

For some reactive diluents, prolonged or repeated skin contact may result in absorption of potentially harmful amounts or allergic skin reactions. All multifunctional acrylates (MFA) produce skin disorders and sensitise the skin and inflammation. Vapours generated by the heat of milling may occur in sufficient concentration to produce inflammation.

TOXICITY AND IRRITATION

Ingredient	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Epoxy Resin	11400 mg/kg	1270 mg/kg	
Propylene Carbonate	>5000 mg/kg	>5000 mg/kg	
Trimethylolpropane Triacrylate	>5000 mg/kg		
Fumed silica	3160 mg/kg	>5000 mg/kg	>0.139 mg/l/4h

Section 12 - Ecological Information

Toxic to aquatic life with long lasting effects

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Ingredient	Fish	Crustacea	Algae
Epoxy Resin	LC _{50 96hr} 2 mg/L		
Propylene Carbonate	LC _{50 96hr} 1 mg/L NOEC _{96hr} 1 mg/L	EC _{50 48hr} >1 mg/L EC _{0 72hr} 500 mg/L	EC _{50 96hr} >500 mg/L
Trimethylolpropane Triacrylate	LC _{50 96hr} 0.87 mg/L NOEC _{96hr} 0.89 mg/L		EC _{50 96hr} 4.86 mg/L
Fumed silica	LC _{50 96hr} 1-33.02 mg/L	NOEC _{720hr} 34.223 mg/L	EC _{50 96hr} 440 mg/L

	Persistence H ₂ O/ Soil	Persistence Air	Bioaccumulation	Mobility
Epoxy Resin	HIGH	HIGH	LOW	LOW
Propylene Carbonate	HIGH	HIGH	LOW	LOW
Trimethylolpropane Triacrylate	LOW	LOW	LOW	LOW
Fumed Silica	LOW	LOW	LOW	IOW

Section 13 - Disposal Considerations

Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product.

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled. The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance. Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

Section 14 - Transport Information



HAZCHEM

3Z

Land Transport UNDG

Class or division 9
 Subsidiary Risk None
 UN Number **3082**
 UN Packing Group III
 Special Provisions 274 331 335 375
 Limited Quantity 5 Lt
 Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Air Transport IATA

ICAO/IATA Class 9
 ICAO/IATA Subrisk None
 UN/ID Number **3082**
 ERG Code 9L
 Packing Group III
 Special provision A97 A158 A197
 Cargo only
 Packing instructions 964
 Maximum Qty/pack 450 Lt
 Passenger and Cargo
 Packing instructions 964
 Maximum Qty/pack 450 Lt
 Passenger & Cargo Limited Quantity
 Packing instructions Y964
 Maximum Qty/pack 30 Kg G
 Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Marine Transport IMDG

IMDG Class 9
 IMDG Subrisk None
 UN Number **3082**
 UN Packing Group III
 EmS Number F-A S-F
 Special provisions 274 335 969
 Limited quantities 5 Lt
 Marine pollutant Yes
 Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Section 15 - Regulatory Information

HSNO Approval: **HSR002670 Surface Coatings & Colourants (Subsidiary Hazard)**

Group Standard conditions and other regulations:

Condition	Requirement
SDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Emergency plan	Required when quantities exceed 1000 Lt
Certified handler	Not required
Tracking	Not applicable

Bunding and secondary containment	Required dependent upon pack size and total volume
Signage	Required when quantities exceed 1000 Lt
Location Compliance Certificate	Not required
Hazardous Area	Not required
Fire extinguisher	Not required

National Inventories

Australia	AICS	Y
Canada	DSL	Y
Canada	NDSL	N
China	IECSC	Y
Europe	EINEC/ELINCS/NLP	Y
Japan	ENCS	Y
Korea	KECI	Y
New Zealand	NZIOC	Y
Philippines	PICCS	Y
USA	TSCA	Y
Taiwan	TCSI	Y
Mexico	INSQ	Y
Vietnam	NCI	Y
Russia	ARIPS	Y

Section 16 - Other Information

Revision History

August 2020

Initial Preparation

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
HSNO	Hazardous Substances & New Organisms Act
IARC	International Agency for Research on Cancer
ICAO Technical Instruction	International Civil Aviation Organization Technical Instructions
IMDG Code	International Maritime Dangerous Goods Code controlled by the International Maritime Organisation (IMO)
LC₅₀	Lethal concentration 50% - concentration fatal to 50% of a population
LD₅₀	Lethal dose 50% - concentration fatal to 50% of a population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety Datasheet
STEL	Short Term Exposure Limit
TWA	Time Weighted Average (typically measured as 8-hours)
UN Number	United Nations Number
WES	Workplace Exposure standard

References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID).
www.epa.govt.nz.

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 11th Edition (November 2019).



Safety Data Sheet

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The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.

This SDS was prepared by Collievale Enterprises Ltd in accord with the Hazardous Substances (Safety Data Sheets) Notice 2017
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End of SDS