

Clark Products Limited

Chemwatch: 21851 Version No: 4.1.1.1 Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 3

Issue Date: 26/07/2013 Print Date: 20/05/2016 Initial Date: Not Available S.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	DIATOMACEOUS EARTH, FLUX-CALCINED
Chemical Name	Celite
Synonyms	101568, Kieselguhr soda ash Flux Calcined, SiO2, absorbent granules for spilled chemicals, calcined diatomite, celatom, celite, diatomite, flux-calcined diatomaceous earth, infusorial earth, kieselguhr, silica, silicon dioxide, tripolite
Chemical formula	SiO2
Other means of identification	Not Available
CAS number	68855-54-9

Relevant identified uses Filtration, clarifying and decolourising of solutions; mild abrasive. Drilling mud thickener; anticaking agent in powde

Relevant identified uses	Filtration, clarifying and decolourising of solutions; mild abrasive. Drilling mud thickener; anticaking agent in powders, fertilisers. Extender pigment in paints,
	paper coatings, rubber and plastics products. Ceramics, electrical and heat insulation; refractories: anticaking diluent, filler, filter aid, laboratory reagent.

Details of the supplier of the safety data sheet

Registered company name	Clark Products Limited
Address	24 Niven Street Onekawa Napier New Zealand
Telephone	+0800 66 66 33
Fax	+64 6 8432958
Website	www.clarkproducts.co.nz
Email	orders@clarkproducts.co.nz

Emergency telephone number

Association / Organisation	CHEMCALL (0800 CHEMCALL)
Emergency telephone numbers	0800 243 622
Other emergency telephone numbers	1800 243 622 (outside New Zealand)

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	2		0 = Minimum
Body Contact	1		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	3		4 = Extreme

Classification ^[1]	Carcinogenicity Category 1A, Specific target organ toxicity - repeated exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	6.7A, 6.9B (inhalation)	

Label elements

GHS label elements



SIGNAL WORD	DANGER	
Hazard statement(s)		
H350	May cause cancer.	
H373	May cause damage to organs.	
Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P281	Use personal protective equipment as required.	
Precautionary statement(s) Response		
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P314	Get medical advice/attention if you feel unwell.	

Precautionary statement(s) Storage

Store locked up.

Precautionary statement(s) Disposal

P405

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

CAS No	%[weight]	Name
7631-86-9	>=60	silica amorphous
		converted by flux calcining to
14464-46-1	5-15	cristobalite
14808-60-7	<3	silica crystalline - quartz
15468-32-3	NotSpec.	tridymite

Mixtures

See section above for composition of Substances

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: 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	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear breathing passages. Ask patient to rinse mouth with water but to not drink water. Seek immediate medical attention.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

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DIATOMACEOUS EARTH, FLUX-CALCINED

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Advice for firefighters	
Fire Fighting	 When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles. When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of; silicon dioxide (SiO2) metal oxidesMay emit poisonous fumes.May emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	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.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe 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.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Silicas: react with hydrofluoric acid to produce silicon tetrafluoride gas react with xenon hexafluoride to produce explosive xenon trioxide reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds may react with fluorine, chlorates are incompatible with strong oxidisers, manganese trioxide, chlorine trifluoride, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate may react vigorously when heated with alkali carbonates. Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride. These trifluorides are hypergolic oxidisers. They ignites on contact (without external source of heat or ignition) with recognised fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition. The state of subdivision may affect the results.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes	
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica Amorphous, fused	0.2 (Respirable dust) mg/m3	Not Available	Not Available	Not Available	
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica-Amorphous / Silica Amorphous, Diatomaceous earth (not calcined)	10 mg/m3	Not Available	Not Available	The value for inhalable dust containing no asbestos and less than 1% free silica.;	
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica fume	2 (Respirable dust) mg/m3	Not Available	Not Available	Not Available	
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica Amorphous, Precipitated silica	10 mg/m3	Not Available	Not Available	The value for inhalable dust containing no asbestos and less than 1% free silica.;	

New Zealand Workplace Exposure Standards (WES)	cristobalite	Silica-Crystalline / Silica-Crystalline, Cristobalite	0.1 Respirable dust mg/m3	Not Available	Not Available	2011 correction; Confirmed carcinogen
New Zealand Workplace Exposure Standards (WES)	silica crystalline - quartz	Silica-Crystalline, Quartz	0.2 Respirable dust mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	tridymite	Silica-Crystalline, Tridymite	0.1 Inhalable dust mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
silica amorphous	Silica gel, amorphous synthetic	Silica gel, amorphous synthetic			6 mg/m3
silica amorphous	Silica, amorphous fumed		6 mg/m3	6 mg/m3	630 mg/m3
silica amorphous	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))		18 mg/m3	200 mg/m3	1200 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide,	amorphous)	0.07 mg/m3	0.77 mg/m3	4.6 mg/m3
silica amorphous	Silica, amorphous fume		0.3 mg/m3	0.3 mg/m3	1.6 mg/m3
silica amorphous	Silica amorphous hydrated			6 mg/m3	85 mg/m3
silica amorphous	Diatomaceous silica, calcined			9.9 mg/m3	59 mg/m3
cristobalite	Cristobalite			0.41 mg/m3	41 mg/m3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)			0.025 mg/m3	0.025 mg/m3
Ingredient	Original IDLH	Revised ID	LH		
silica amorphous	N.E. mg/m3 / N.E. ppm	3,000 mg/m3	3		
cristobalite	N.E. mg/m3 / N.E. ppm 25 mg/m3				
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm 50 mg/m3				
tridymite	N.E. mg/m3 / N.E. ppm	25 mg/m3			

Exposure controls

Appropriate 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.
Personal protection	
Eye and face 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.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream.
Thermal hazards	Not Available

Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AX P1 Air-line*	-	AX PAPR-P1 -
up to 50 x ES	Air-line**	AX P2	AX PAPR-P2
up to 100 x ES	-	AX P3	-
		Air-line*	-
100+ x ES	-	Air-line**	AX PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance White (calcined) or pale pink (calcined) powder. Insoluble in water and acids. No odour. Soluble in strong alkalies and hydrogen fluoride.

Physical state	Divided Solid	Relative density (Water = 1)	2.2-2.35
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not available.
Melting point / freezing point (°C)	1710 approx.	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	2232	Molecular weight (g/mol)	Not available.
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	< 1 as water
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of dusts, or fumes, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Effects on lungs are significantly enhanced in the presence of respirable particles. Acute silicosis occurs under conditions of extremely high silica dust exposure particularly when the particle size of the dust is small. The disease is rapidly progressive and spreads widely through the lungs within months of the initial exposure and causing death within 1 to 2 years.
Ingestion	Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.
Chronic	Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Crystalline silicas activate the inflammatory response of white blood cells after they injure the lung epithelium. Chronic exposure to crystalline silicas reduces lung capacity and predisposes to chest infections. Overexposure to respirable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased

	vital lung capacity, chest infections Repeated exposures, in an occupational setting, to high levels of fine- divided dusts may produce a condition known as pneumoconiosis which is the lodgeme of any inhaled dusts in the lung irrespective of the effect. This is particularly true when a significant number of particles less than 0.5 microns (1/50,000 incl are present. Lung shadows are seen in the X-ray. Amorphous silicas generally are less hazardous than crystalline silicas, but the former can be converted to the latter on heating and subsequent cooling. Inhalation of dusts containing crystalline silicas may lead to silicosis, a disabling lung disease that may take years to develop.							
DIATOMACEOUS EARTH,	ΤΟΧΙΟΙΤΥ	IRRITATION						
FLUX-CALCINED	Oral (rat) LD50: >2000 mg/kg ^[1]	Not Available						
	ΤΟΧΙΟΙΤΥ	IRRITATION						
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	* [Grace]						
silica amorphous	Inhalation (rat) LC50: >0.139 mg//14h *] ^[2]	Eye (rabbit): non-irritating *						
	Oral (rat) LD50: 3160 mg/kg* ^[2]	Skin (rabbit): non-irritating *						
	ΤΟΧΙΟΙΤΥ	IRRITATION						
cristobalite	Not Available	Not Available						
	ΤΟΧΙΟΙΤΥ	IRRITATION						
silica crystalline - quartz	Not Available	Nil reported						
	тохісіту	IRRITATION						
tridymite	Not Available	Nil available						
Legend:	 Value obtained from Europe ECHA Registered Substances - extracted from RTECS - Register of Toxic Effect of chemical S 	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data Substances						
DIATOMACEOUS EARTH, FLUX-CALCINED		SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority in the body. Following absorption across the gut, SAS is eliminated via urine without broken down (metabolised) in mammals.						
		SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority in the body. Following absorption across the gut, SAS is eliminated via urine without						

SILICA AMORPHOUS	When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]						
CRISTOBALITE	Inhalation (human) TCLo: 16 mppcf*/8H/17.9y-I * Millions of particles per cubic foot						
TRIDYMITE	WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans. 16 mppcf/8h/17.9y - I Human cell mutagen						
CRISTOBALITE & SILICA CRYSTALLINE - QUARTZ	WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspncea, liver tumours.						
Acute Toxicity	× Carcinog	enicity	✓				
Skin Irritation/Corrosion	S Reprodu	ctivity	\otimes				
Serious Eye Damage/Irritation	STOT - Single Exp	osure	0				
Respiratory or Skin sensitisation	STOT - Repeated Exp	osure	*				
Mutagenicity	S Aspiration H	lazard	0				
	Legen	d: >	 Data available but does not fill the criteria for classification 				

Data available but does not till the criteria for c
 Data required to make classification available
 Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
silica amorphous	EC50	384	Crustacea	28.000mg/L	3
silica amorphous	LC50	96	Fish	120.743mg/L	3
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
silica amorphous	NOEC	72	Algae or other aquatic plants	60mg/L	1

silica amorphous	EC50	48	Crustacea	>1000mg/L	L 2
Legend:		Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -			
	Bioconcentration Data 7	Bioconcentration Data 7, METI (Japan) - Bioconcentration Data 8, Vendor Data			

For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (man-made or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth \bullet s crust, by weight, and is the second most abundant element, being exceeded only by oxygen. Silicon is not found free in nature, but occurs chiefly as the oxide and as silicates. Once released into the environment, no distinction can be made between the initial forms of silica. For Amorphous Silica is chemically and biologically inert. It is not biodegradable.

Aquatic Fate: Due to its insolubility in water there is a separation at every filtration and sedimentation process. On a global scale, the level of man-made synthetic amorphous silicas (SAS) represents up to 2.4% of the dissolved silica naturally present in the aquatic environment and untreated SAS have a relatively low water solubility and an extremely low vapour pressure. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
silica amorphous	LOW	LOW

Bioaccumulative potential

-	
Ingredient	Bioaccumulation
silica amorphous	LOW (LogKOW = 0.5294)
Mobility in soil	
Ingredient	Mobility

SECTION 13 DISPOSAL CONSIDERATIONS

LOW (KOC = 23.74)

Waste treatment methods

silica amorphous

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
	▶ Reuse
	▶ Recycling
	▶ Disposal (if all else fails)
Product / Packaging	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
disposal	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 State Land Waste Management Authority for disposal.
	▶ Bury residue in an authorised landfill.
	 Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable
Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002531	Cleaning Products (Toxic [6.7]) Group Standard 2006
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2006

HSR002512	Additives, Process Chemicals and Raw Materials (Toxic [6.7]) Gro	bup Standard 2006
HSR002625 HSR002639	N.O.S. (Toxic [6.1, 6.7]) Group Standard 2006 Photographic Chemicals (Toxic [6.7]) Group Standard 2006	
HSR002512	Additives, Process Chemicals and Raw Materials (Toxic [6.7]) Gro	pup Standard 2006
ISR002560	Dental Products (Toxic [6.7]) Group Standard 2006	
HSR002568	Embalming Products (Toxic [6.7]) Group Standard 2006	
HSR002679	Surface Coatings and Colourants (Toxic [6.7]) Group Standard 20	06
HSR100425	Pharmaceutical Active Ingredients Group Standard 2010	
HSR002601	Leather and Textile Products (Toxic [6.7]) Group Standard 2006	
ISR002687	Water Treatment Chemicals (Toxic [6.7]) Group Standard 2006	
ISR002648	Refining Catalysts Group Standard 2006	
ISR002545	Construction Products (Toxic [6.7A]) Group Standard 2006	
HSR002551	Corrosion Inhibitors (Toxic [6.7]) Group Standard 2006	
HSR100757	Veterinary Medicine (Limited Pack Size, Finished Dose) Standard	2012
HSR100758	Veterinary Medicines (Non-dispersive Closed System Application)	Group Standard 2012
ISR100759	Veterinary Medicines (Non-dispersive Open System Application) C	Group Standard 2012
ISR002655	Solvents (Toxic [6.7]) Group Standard 2006	
Nonographs New Zealand Hazardous S Chemicals		New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)
	Substances and New Organisms (HSNO) Act - Classification of	New Zealand Workplace Exposure Standards (WES)
Chemicals New Zealand Inventory of (Chemicals (NZIOC)	
	QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATOR	
nternational Agency for Re /lonographs		New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)
	ubstances and New Organisms (HSNO) Act - Classification of	
RIDYMITE(15468-32-3)	IS FOUND ON THE FOLLOWING REGULATORY LISTS	
New Zealand Inventory of C		New Zealand Workplace Exposure Standards (WES)
cation Test Certifica	ate	
Subject to Regulation 55 of	the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a locati	on test certificate is required when quantity greater than or equal to those indicated below
are present.		
	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
6.7A	10 kg or more, if solid 10 L or more, if liquid

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory	Status
Australia - AICS	N (tridymite)
Canada - DSL	N (tridymite)
Canada - NDSL	N (tridymite; silica crystalline - quartz; cristobalite)
China - IECSC	N (tridymite)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (tridymite; silica crystalline - quartz; cristobalite)

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DIATOMACEOUS EARTH, FLUX-CALCINED

Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	N (tridymite)
USA - TSCA	N (tridymite)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
silica amorphous	112926-00-8, 112945-52-5, 60676-86-0, 61790-53-2, 67762-90-7, 68611-44-9, 68909-20-6, 69012-64-2, 7631-86-9, 844491-94-7, 91053-39-3
silica crystalline - quartz	122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 14808-60-7, 70594-95-5, 87347-84-0

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at: www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit, IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

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