

Regain Services Pty Ltd

Version No: 3.43

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Regain Document Code 102K023A v5.1 Issue Date: 11/09/2022 Print Date: 11/09/2022 S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier		
Product name	HiCAL 30 Mineralising Carbon	
Synonyms	Not Available	
Other means of identification	Not Available	

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses A mineral product rich in fluoride, sodium, alumina and carbon. Designed for use in cement clinker manufacture.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Regain Services Pty Ltd
Address	G62, 63-85 Turner Street, Port Melbourne, VIC, 3207 Australia Port Melbourne Victoria Australia
Telephone	+61 3 9514 8600
Fax	+61 3 9514 8642
Website	www.regainmaterials.com
Email	info@regainmaterials.com

Emergency telephone number

Association / Organisation	Regain Services Pty Ltd	
Emergency telephone numbers	+61 3 9514 8600	
Other emergency telephone numbers	+61 417 556 831	

SECTION 2 Hazards identification

Classification of the substance or mixture		
Poisons Schedule	Not Applicable	
Classification ^[1]	Eye Irritation Category 2A, Specific Target Organ Toxicity - Repeated Exposure Category 2, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	
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Signal word Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H302	Harmful if swallowed.
H315	Causes skin irritation.

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P314	Get medical advice/attention if you feel unwell.	
Precautionary statement(s) Storage		

Not Applicable

Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with any local regulation.
F301	Dispose of contents/container in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7440-44-0*	28-35	carbon. non-activated
7681-49-4	10-20	sodium fluoride
15096-52-3	5-20	sodium aluminium fluoride
1344-28-1.	5-10	aluminium oxide
60676-86-0	<5	silica fused
1309-38-2	<5	magnetite
12068-56-3	<10	aluminium silicate
7789-75-5	<5	calcium fluoride
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

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Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with 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 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: 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	 If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water First aid is not generally required. If in dout, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to fluorides:

- Fluoride absorption from gastro-intestinal tract may be retarded by calcium salts, milk or antacids.
- Fluoride particulates or fume may be absorbed through the respiratory tract with 20-30% deposited at alveolar level.
- Peak serum levels are reached 30 mins. post-exposure; 50% appears in the urine within 24 hours.
- For acute poisoning (endotracheal intubation if inadequate tidal volume), monitor breathing and evaluate/monitor blood pressure and pulse frequently since shock may supervene with little warning. Monitor ECG immediately; watch for arrhythmias and evidence of Q-T prolongation or T-wave changes. Maintain monitor. Treat shock vigorously with isotonic saline (in 5% glucose) to restore blood volume and enhance renal excretion.
- + Where evidence of hypocalcaemic or normocalcaemic tetany exists, calcium gluconate (10 ml of a 10% solution) is injected to avoid tachycardia.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Fluorides in urine	3 mg/gm creatinine	Prior to shift	B, NS
	10mg/gm creatinine	End of shift	B, NS

B: Background levels occur in specimens collected from subjects NOT exposed

NS: Non-specific determinant; also observed after exposure to other exposures.

SECTION 5 Firefighting measures

Extinguishing media

Use dry powder. Cover with dry earth, sand or other non-combustible material.

Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine	ne etc. as ignition may result
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Advice for firefighters

Fire Fighting	 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 DO NOT Approach containers suspected to be hot.
Fire/Explosion Hazard	Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen fluoride silicon dioxide (SiO2) metal oxides other pyrolysis products typical of burning organic material. When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up waste regularly and abnormal spills immediately. Avoid breathing dust and contact with skin and eyes.
Major Spills	 Moderate hazard. CAUTION:Advise personnel in area. 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.

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. 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 scap 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.
Other information	 Store in ventilated area. Store in a cool, dry area protected from environmental extremes. Avoid run-off water. 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. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water,

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Conditions for safe storage, including any incompatibilities

Suitable container	Observe manufacturer's storage and handling recommendations contained within this SDS
Storage incompatibility	 For aluminas (aluminium oxide): Incompatible with hot chlorinated rubber. In the presence of chlorine trifluoride may react violently and ignite. Sodium fluoride: aqueous solutions attack glass and react violently with xenon hexafluoride; are incompatible with sulfuric acid, caustics, ammonia, aliphatic amines, alkanolamines, amides, organic anhydrides, isocyanates, vinyl acetate, alkylene oxides, epichlorohydrin reacts with acids forming hydrogen fluoride Contact with acids produces toxic fumes For carbon powders: Avoid oxidising agents, reducing agents.

SECTION 8 Exposure controls / personal protection

Control parameters

INGREDIENT DATA

Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium fluoride	Fluorides (as F)	2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium aluminium fluoride	Fluorides (as F)	2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium oxide	Aluminium oxide	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica fused	Silica, fused	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	calcium fluoride	Fluorides (as F)	2.5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
carbon, non-activated	6 mg/m3	330 mg/m3	2,000 mg/m3
sodium fluoride	17 mg/m3	90 mg/m3	1,100 mg/m3
aluminium oxide	15 mg/m3	170 mg/m3	990 mg/m3
calcium fluoride	15 mg/m3	170 mg/m3	1,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
carbon, non-activated	Not Available	Not Available
sodium fluoride	250 mg/m3	Not Available
sodium aluminium fluoride	Not Available	Not Available
aluminium oxide	Not Available	Not Available
silica fused	Not Available	Not Available
magnetite	Not Available	Not Available
aluminium silicate	Not Available	Not Available
calcium fluoride	250 mg/m3	Not Available

Exposure controls

Appropriate engineering controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Engineering controls may be required to control the primary or secondary risks associated with this product. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.Use explosion-proof ventilation Equipment.
Personal protection	
Eye and face protection	Safety eyewear with side shields. chemical goggles.
Skin protection	See Hand protection below

Hands/feet protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.
Body protection	See Other protection below
Other protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Dark		
Physical state	Solid	Relative density (Water = 1)	1.3
Odour	Ammonia like	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Applicable
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	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)	Negligible
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable.
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

	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal
	models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an
Inhaled	occupational setting.

Ingestion	The material has not been classified by EC Directives and other classification systems as 'harmful by ingestion'. This is because of the lack of collaborating animal or human evidence. Acute toxic responses to aluminium are confined to the more soluble forms.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Though considered non-harmful, slight irritation may result from contact because of the abrasive nature of the aluminium oxide particles. Thus it may cause itching and skin reaction and inflammation. Open cuts, abraded or irritated skin should not be exposed to this material
Eye	This material can cause eye irritation and damage in some persons. Eyes exposed to carbon particulates may be liable to irritation and burning. These can remain in the eye causing inflammation lasting weeks,and can cause permanent dark dotty discolouration
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

1						
	ΤΟΧΙΟΙΤΥ		IRRITATION			
HiCAL 30 Mineralising Carbon	Not Available		Not Available			
	тохісіту	IRRITATIO	N			
carbon, non-activated	Oral (Rat) LD50; >2000 mg/kg ^[1]	0ral (Rat) LD50; >2000 mg/kg ^[1] Eye: no adverse effect observed (not irr				
		Skin: no ad	verse effect observed (not irri	tating) ^[1]		
	ΤΟΧΙCΙΤΥ		IRRITATION			
sodium fluoride	dermal (rat) LD50: >2000 mg/kg ^[1]		Eye (rabbit): 20 mg/24h-moderate			
	Oral (Rat) LD50; >25<2000 mg/kg ^[1]					
codium aluminium fluorida	ΤΟΧΙCΙΤΥ			IRRITATION		
sourum arummum nuorrue	Oral (Rat) LD50; >5000 mg/kg ^[2]	Not Available				
	ΤΟΧΙCΙΤΥ	IRRITAT	ION			
aluminium oxide	Inhalation(Rat) LC50; >2.3 mg/l4h ^[1]	adverse effect observed (not	irritating) ^[1]			
	Oral (Rat) LD50; >2000 mg/kg ^[1]	adverse effect observed (not	t irritating) ^[1]			
silica fusad	ΤΟΧΙCΙΤΥ		IRRITATION			
Silica luseu	Not Available		Not Available			
magnetite	TOXICITY			IRRITATION		
	Oral (Rat) LD50; >10000 mg/kg ^[2]		Not Available			
aluminium silicate						
	Not Available	Not Available				
	ΤΟΧΙCITY			IRRITATION		
	dermal (rat) D50: >905 mg/kg ^[1]			Not Available		
calcium fluoride	Inhalation(Rat) C50: 0.29 mg/l4b ^[1]					
	Oral (Rat) D50: 101 mg/kg ^[1]					
	5.5. (Nai) 2000, 101 mg/ng-					

Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances					
HiCAL 30 Mineralising Carbon	Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.					
carbon, non-activated	Substance has been investigated as a reproductive ef	ffector.				
SODIUM FLUORIDE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. 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.					
SILICA FUSED	Inhalation (rat) TCLo: 197 mg/m3/6H/26W-I					
SODIUM FLUORIDE & CALCIUM FLUORIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.					
SODIUM ALUMINIUM FLUORIDE & ALUMINIUM OXIDE	No significant acute toxicological data identified in lite	rature search.				
Acute Toxicity	✓	Carcinogenicity	×			
Skin Irritation/Corrosion	×	Reproductivity	×			
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×			
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*			
	X Aspiration Hazard X					

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

SECTION 12 Ecological information

CAL 30 Mineralising Carbon carbon, non-activated	Not Available Endpoint NOEC(ECx) Endpoint BCF NOEC(ECx) EC50	Te 72 Tes 672	Not Available	N Speci Algae	ot Available ies or other aquatic pla	Not Availab	le Va 50	Not Avail	able Source	
carbon, non-activated	Endpoint NOEC(ECx) Endpoint BCF NOEC(ECx) EC50	Tes 72 Tes	est Duration (hr) 2h st Duration (hr)	Speci Algae	ies or other aquatic pla	nts	Va 50	lue mg/L	Source	
carbon, non-activated	NOEC(ECx) Endpoint BCF NOEC(ECx) EC50	72 Tes 672	t Duration (hr)	Algae	or other aquatic pla	nts	50	mg/L	4	
sodium fluoride	Endpoint BCF NOEC(ECx) EC50	Tes 672	st Duration (hr)					•	4	
sodium fluoride	BCF NOEC(ECx) EC50	672		Species			Value		Source	
sodium fluoride	NOEC(ECx) EC50		2h	Fish			<0.66		7	
sodium fluoride	EC50	216	50h	Fish			3.1mg/l		4	
		72h	ı	Algae or	other aquatic plants	;	>121.8m	ng/L	4	
	EC50	48h	ı	Crustace	a		36.2mg/	L	5	
	LC50	96ł	ı	Fish			38-68m	38-68mg/l		
	EC50	96h		Algae or	Algae or other aquatic plants		43mg/l		2	
	Endpoint	Test Duration (hr)		Species		Value	alue		ource	
	EC50		48h		Crustacea	3.6-6	3.6-6.8mg/l		4	
sodium aluminium fluoride	EC50(ECx)		48h	C		Crustacea 3.6-6.8		4		
	LC50		96h	Fish 47mg/l			/I	4		
	Endpoint	Test	Duration (hr)	Species		١	alue		Source	
	EC50	72h		Algae or other aquatic plants			0.2mg/l		2	
	EC50	48h		Crustacea			1.5mg/l		2	
aluminium oxide	NOEC(ECx)	72h		Algae or other aquatic plants			>100mg/l		1	
	LC50	96h		Fish			0.078-0.108mg/l		2	
	EC50	96h		Algae or other aquatic plants		C	0.024mg/l		2	
	Endpoint		Test Duration (hr)	Species		Value		Source		
silica fused	Not Available		Not Available	N	ot Available	Not Availab	e	Not Avail	able	
	Endpoint		Toot Duration (br)		Encoico	Ve	luo	P.o.	1700	

	NOLO(LOX)		10011			1 1011		40.5mg/i	T	
	Endpoint	Te	est Duration (hr)		Species		Value		Source	
aiuminium silicate	Not Available	> Not Available			Not Available Not Ava		ilable	Not Available		
								1		
	Endpoint	Test Duration (hr)		Species	Species			Value		Source
	NOEC(ECx)	504h		Crustace	Crustacea			3.7mg/l		2
a a la ium fluaniala	EC50	72h		Algae or	Algae or other aquatic plants		>100mg/l		2	
calcium fluoride	EC50	48h		Crustace	Crustacea			97mg/l		2
	LC50	96h		Fish	Fish			>=10.4<=150mg/l		2
	EC50	96h		Algae or	Algae or other aquatic plants			43mg/l		2
l grand:	LC50 EC50	96h 96h	city Data 2 Furon	Fish Algae or	other aquatio	c plants	cological I	>=10.4<=150 43mg/l	mg/l	_

For Fluorides: Small amounts of fluoride have beneficial effects however; excessive intake over long periods may cause dental and/or skeletal fluorosis. Fluorides are absorbed by humans following inhalation of workplace and ambient air that has been contaminated, ingestion of drinking water and foods and dermal contact.

Microbial methylation plays important roles in the biogeochemical cycling of the metalloids and possibly in their detoxification. Many microorganisms (bacteria, fungi, and yeasts) and animals are now known to biomethylate arsenic, forming both volatile (e.g., methylarsines) and nonvolatile (e.g., methylarsonic acid and dimethylarsinic acid) compounds. For Aluminium and its Compunds and Salts:

Environmental Fate - As an element, aluminium cannot be degraded in the environment, but may undergo various precipitation or ligand exchange reactions. Aluminium in compounds has only one oxidation state (+3), and would not undergo oxidation-reduction reactions under environmental conditions.

For Amorphous Silica: Amorphous silica is chemically and biologically inert. It is not biodegradable.

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's crust, by weight, and is the second most abundant element, being exceeded only by oxygen. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air			
sodium fluoride	LOW	LOW			
Bioaccumulative potential					
Ingredient	Bioaccumulation				
sodium fluoride	LOW (BCF = 6.4)				

Mobility in soil

Ingredient	Mobility
sodium fluoride	LOW (KOC = 14.3)

SECTION 13 Disposal considerations

Waste treatment methods					
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. 				
	DO NOTallow wash water from cleaning or process equipment to enter drains.				

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO			
HAZCHEM	Not Applicable			

Land transport (ADG): 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

carbon, non-activated is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	Manufactured Nanomaterials (MNMS)
sodium fluoride is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Schedule 2 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Schedule 3	Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
sodium aluminium fluoride is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australian Inventory of Industrial Chemicals (AIIC)	Monographs
aluminium oxide is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Chemical Footprint Project - Chemicals of High Concern List	Monographs - Group 1: Carcinogenic to humans
	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
silica fused is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	Manufactured Nanomaterials (MNMS)
magnetite is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	Manufactured Nanomaterials (MNMS)
aluminium silicate is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	Manufactured Nanomaterials (MNMS)
calcium fluoride is found on the following regulatory lists	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	Australian Inventory of Industrial Chemicals (AIIC)
Schedule 3	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4	Monographs
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (carbon, non-activated; sodium fluoride; aluminium oxide; silica fused; magnetite; aluminium silicate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (carbon, non-activated)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (magnetite)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (magnetite)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	11/09/2022
Initial Date	01/11/2017

SDS Version Summary

Version	Date of Update	Sections Updated
3.43	11/09/2022	Ingredients

Other information

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

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.

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 ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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end of SDS