

Regain Services Pty Ltd

Version No: 2.2

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 29/08/2018 Print Date: 29/08/2018 S.GHS.AUS.EN

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

Product Identifier

Product name	HiCAI-S Clinker Mineraliser
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 and alumina. Designed for use in cement clinker manufacture. The presence of fluoride may result in a beneficial fluxing and/or mineralisation effect that reduces firing temperature and promotes desired phase formation in manufacture of cement clinker. The presence of sodium may improve the burning process and sulphur binding thereby improving kiln operation and clinker quality. The presence of alumina may substitute other types of correctives used for raw mix preparation.
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Details of the supplier of the safety data sheet

Registered company name	Regain Services Pty Ltd	
Address	evel 12, 390 St. Kilda Road 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	Not Available	
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]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - repeated exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 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)

nazaru statement(s)		
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Precautionary statement(s) Prevention		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P270	Do not eat, drink or smoke when using this product.	

Precautionary statement(s) Response

P362 Take off contaminated clothing and wash before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
12251-27-3	18	nepheline
99439-28-8	15	silica, fumed
7681-49-4	12	sodium fluoride
1302-93-8	12	mullite
1344-28-1.	10	aluminium oxide
15096-52-3	7	sodium aluminium fluoride
7440-44-0	6	carbon, non-activated
1309-38-2	5	magnetite
7789-75-5	2	calcium fluoride

SECTION 4 FIRST AID MEASURES

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 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, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually 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 mean time, 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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Sampling Time Prior to shift

End of shift

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

Determinant	Index
Fluorides in urine	3 mg/gm creatinine
	10mg/gm creatinine

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

Comments

B, NS B, NS

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

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Use dry chemical or CO2. Cover with dry earth, sand or other non-combustible material.
- Use extinguishing media suitable for surrounding area.

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 DO NOT Approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thouroughly decontaminated after use. 	
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: hydrogen fluoride silicon dioxide (SiO2) 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 all spills immediately. Avoid contact with skin and eyes. Control personal contact with substance, by using protective Equipment. Use dry clean up procedures and avoid generating dust.
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 • 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. Safe handling 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. Store in ventilated area. Store in a cool, dry area protected from environmental extremes. Avoid run-off water. Other information Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. ٠ • 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, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan.
Conditions for safe storage,	including any incompatibilities
Suitable container	 Store in accordance with manufacturer's recommendation and local regulation. Store in segregated and approved area. Store so as to avoid dust generation and dispersal.
Storage incompatibility	 Contact with acids produces toxic fumes Silicas: react with hydrofluoric acid to produce silicon tetrafluoride gas react with xenon hexafluoride to produce explosive xenon trioxide reacts exothermically with oxygen diffuoride, 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 trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate may react vigorously when heated with alkali carbonates.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

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	aluminium oxide	Aluminium oxide	10 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	Material name	TEEL-1		TEEL-2	TEEL-3	
sodium fluoride	Sodium fluoride	17 mg/m3		90 mg/m3	1,100 mg/m3	
aluminium oxide	Aluminum oxide; (Alumina)	5.7 mg/m3		15 mg/m3	25 mg/m3	
carbon, non-activated	Carbon; (Graphite, synthetic)	6 mg/m3		16 mg/m3	95 mg/m3	
calcium fluoride	Calcium fluoride	15 mg/m3		170 mg/m3	1,000 mg/m3	
Ingredient	Original IDLH		Revised IDL	.H		
nepheline	Not Available		Not Available			
silica, fumed	Not Available		Not Available			
sodium fluoride	250 mg/m3		Not Available			
mullite	Not Available		Not Available			
aluminium oxide	Not Available	Not Available		ot Available		
sodium aluminium fluoride	Not Available		Not Available			
carbon, non-activated	Not Available		Not Available			
magnetite	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 complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be wom unless the assessment indicates a higher degree of protection:chemical splash goggles.
Skin protection	See Hand protection below
Hands/feet protection	Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene.
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 spects of use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

HiCAI-S Clinker Mineraliser

MaterialCPINATURAL RUBBERANEOPRENEANITRILEAPVCA

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

 $\ensuremath{\textbf{NOTE}}$: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

be ansulable following long term of nequent use. A qualmed practitioner should be consulted

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

	1		
Appearance	Dark		
Physical state	Solid	Relative density (Water = 1)	Not Applicable
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 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 (g/L)	Immiscible	pH as a solution (1%)	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

Inhaled	Acute effects of fluoride inhalation include irritation of nose and throat, coughing and chest discomfort. A single acute over-exposure may even cause nose bleed.
Ingestion	Fluoride causes severe loss of calcium in the blood, with symptoms appearing several hours later including painful and rigid muscle contractions of the limbs. Cardiovascular collapse can occur and may cause death with increased heart rate and other heart rhythm irregularities. Acute toxic responses to aluminium are confined to the more soluble forms.

Respiratory protection

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

Skin Contact	itching and skin reaction and inflammation. Open cuts, abraded or irritated skin should not be exposed to	om contact because of the abrasive nature of the aluminium oxide particles. Thus it may cause this material ions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the
Eye	This material can cause eye irritation and damage in some pe	ersons.
Chronic		ine silicas, but the former can be converted to the latter on heating and subsequent cooling. licosis, a disabling lung disease that may take years to develop.
	ΤΟΧΙCΙΤΥ	IRRITATION
HiCAI-S Clinker Mineraliser	Not Available	Not Available
	тохісіту	IRRITATION
nepheline	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
silica, fumed	Not Available	Not Available
	тохісіту	IRRITATION
sodium fluoride	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 20 mg/24h-moderate
	Oral (rat) LD50: >25<2000 mg/kg ^[1]	
	τοχιςιτγ	IRRITATION
mullite	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
aluminium oxide	Oral (rat) LD50: >2000 mg/kg ^[1]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
sodium aluminium fluoride	Oral (rat) D50: >5000 mg/kg ^[2]	Not Available

	TOXICITY	IRRITATION
magnetite	Oral (rat) LD50: >10000 mg/kg ^[2]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
calcium fluoride	Oral (rat) LD50: 4250 mg/kg ^[2]	Not Available
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity data extracted from RTECS - Register of Toxic Effect of chemical Substances 	

Not Available

IRRITATION

Not Available

Oral (rat) LD50: >5000 mg/kg^[2]

TOXICITY

Not Available

carbon, non-activated

NEPHELINE	No data available No data available		
SODIUM FLUORIDE	The material may produce moderate eye irritation leading 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		exposure to irritants may produce conjunctivitis.
MULLITE	No data of toxicological significance identified in literature	e search.	
CARBON, NON-ACTIVATED	Substance has been investigated as a reproductive effector	or.	
HiCAI-S Clinker Mineraliser & SILICA, FUMED	For silica amorphous: When experimental animals inhale synthetic amorphous s majority of SAS is excreted in the faeces and there is little	· · · ·	fluid and is rapidly eliminated. If swallowed, the vast
SILICA, FUMED & ALUMINIUM OXIDE & SODIUM ALUMINIUM FLUORIDE	No significant acute toxicological data identified in literatu	ure search.	
SODIUM FLUORIDE & CALCIUM FLUORIDE	Asthma-like symptoms may continue for months or even y reactive airways dysfunction syndrome (RADS) which car		
Acute Toxicity	×	Carcinogenicity	\otimes
Skin Irritation/Corrosion	×	Reproductivity	\otimes
Serious Eye Damage/Irritation	×	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	*
Mutagenicity	\otimes	Aspiration Hazard	\odot

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 \frown Data available but does not nill the official for dassification \checkmark Data available to make classification

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
HiCAI-S Clinker Mineraliser	Not Available	Not Available	Not Available	Not Available	Not Availab
nepheline	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	Not Available	Not Available	Not Available	Not Available Not Available	
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
silica, fumed	Not Available	Not Available	Not Available	Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	LC50	96	Fish	51mg/L	2
	EC50	48	Crustacea	58mg/L	4
sodium fluoride	EC50	96	Algae or other aquatic plants	181mg/L	4
	BCF	240	Fish	5mg/L	4
	NOEC	504	Fish	4mg/L	2
mullite	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	Not Available	Not Available	Not Available	Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	LC50	96	Fish	0.0029mg/L	2
aluminium oxide	EC50	48	Crustacea	0.7364mg/L	2
	EC50	96	Algae or other aquatic plants	0.0054mg/L	2
	NOEC	72	Algae or other aquatic plants	>=0.004mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	SPECIES VALUE	
sodium aluminium fluoride	LC50	96	Fish	42.5mg/L	4
	EC50	48	Crustacea	5mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
carbon, non-activated	Not Available	Not Available	Not Available	Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
magnetite	Not Available	Not Available	Not Available	Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
calcium fluoride	LC50	96	Fish	51mg/L	2
	NOEC	504	Fish	4mg/L	2

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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)

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. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal.

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

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

Not Applicable

SILICA, FUMED(99439-28-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

SODIUM FLUORIDE(7681-49-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix

E (Part 2) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix

F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix J (Part 2)

MULLITE(1302-93-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

2 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Australia Inventory of Chemical Substances (AICS)

ALUMINIUM OXIDE(1344-28-1.) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) SODIUM ALUMINIUM FLUORIDE(15096-52-3) 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) - Appendix J (Part 2) Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix Monographs E (Part 2) CARBON, NON-ACTIVATED(7440-44-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS) International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft MAGNETITE(1309-38-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

CALCIUM FLUORIDE(7789-75-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule $\ensuremath{\mathbf{2}}$

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

4 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status
Australia - AICS	N (nepheline; silica, fumed)
Canada - DSL	N (silica, fumed)
Canada - NDSL	N (magnetite; nepheline; silica, fumed; sodium fluoride; aluminium oxide; carbon, non-activated; mullite)
China - IECSC	N (silica, fumed)
Europe - EINEC / ELINCS / NLP	N (nepheline; silica, fumed)
Japan - ENCS	N (nepheline; silica, fumed; carbon, non-activated; sodium aluminium fluoride)
Korea - KECI	N (silica, fumed)
New Zealand - NZIoC	N (silica, fumed)
Philippines - PICCS	N (silica, fumed; mullite)
USA - TSCA	N (nepheline; silica, fumed)
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

Revision Date	29/08/2018
Initial Date	03/11/2017

Other information

Ingredients with multiple cas numbers

Name	CAS No
nepheline	12251-27-3, 37244-96-5
mullite	1302-93-8, 61027-90-5
aluminium oxide	1344-28-1., 1011245-20-7, 1022097-81-9, 107462-07-7, 107874-14-6, 1097999-44-4, 1197416-35-5, 122784-35-4, 1234495-70-5, 1239586-42-5, 12522-88-2, 127361-04-0, 12737-16-5, 131689-14-0, 1346644-15-2, 135152-65-7, 1355357-83-3, 135667-70-8, 138361-58-7, 148619-39-0, 152743-26-5, 153858-98-1, 157516-29-5, 163581-50-8, 165390-91-0, 170448-81-4, 190401-78-6, 200295-99-4, 205316-36-5, 209552-43-2, 230616-05-4, 252756-35-7, 253606-46-1, 253606-47-2, 253606-45-0, 268724-08-9, 39354-49-9, 457654-46-5, 488831-46-5, 521982-71-8, 53809-96-4, 54352-04-4, 546141-61-1, 663170-52-3, 67853-35-4, 67894-14-8, 67894-42-2, 68189-68-4, 68389-42-4, 68389-43-5, 74871-10-6, 76363-81-0, 84149-21-3, 90669-62-8, 916225-60-0, 960377-08-6, 11092-32-3
sodium aluminium fluoride	15096-52-3, 13775-53-6, 1331-71-1
carbon, non-activated	7440-44-0, 82600-58-6
calcium fluoride	7789-75-5, 14542-23-5

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.

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

PC-STEL: Permissible Concentration-Short Term Expos

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

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