

Millmerran Flyash Pty Ltd

Chemwatch: 5218-34 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: 08/02/2017 Print Date: 09/02/2017 S.GHS.AUS.EN

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

Product Identifier

Product name	Millmerran Flyash
Synonyms	Fly Ash, Pozzolanic Fly Ash, Pulverised Fuel Ash
Other means of identification	Not Available

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

Relevant identified	Use according to manufacturer's directions.
uses	Soil conditioner, additive in concrete.

Details of the supplier of the safety data sheet

Registered company name	Millmerran Flyash Pty Ltd
Address	431 Moffatt Reserve Road Millmerran QLD 4357 Australia
Telephone	+61 7 4695 6033
Fax	+61 7 4695 6133
Website	https://mflyash.com.au/
Email	admin@mflyash.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
Classification ^[1]	Carcinogenicity Category 1A, Specific target organ toxicity - repeated exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

Label elements

GHS label elements



SIGNAL WORD DANGER Hazard statement(s)

H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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

P405 Store locked up.

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
7631-86-9	30-60	silica amorphous
1302-93-8	30-60	mullite
14808-60-7	1-5	silica crystalline - quartz
1317-60-8	<1	haematite

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 or hair contact occurs: 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. 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.
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.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
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. Use fire fighting procedures suitable for surrounding area. 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. 		
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous 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. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Do NOT use air hoses for cleaning Place spilled material in clean, dry, sealable, labelled container.
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. 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.

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. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials.
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	► Store in original containers.
	▶ Keep containers securely sealed.
	Store in a cool, dry area protected from environmental extremes.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
Other information	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; this may require consultation with local authorities.

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	 Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

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	silica amorphous	Silica - Amorphous: Precipitated silica / Silica - Amorphous: Silica gel / Precipitated silica / Silica gel	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure	silica	Silica - Amorphous: Diatomaceous earth	10	Not	Not	Not
Standards	amorphous	(uncalcined) / Diatomaceous earth (uncalcined)	mg/m3	Available	Available	Available
Australia Exposure	silica	Silica - Amorphous: Fume (thermally generated) (respirable dust)	2	Not	Not	Not
Standards	amorphous		mg/m3	Available	Available	Available
Australia Exposure	silica	Silica - Amorphous: Fumed silica (respirable dust)	2	Not	Not	Not
Standards	amorphous	/ Fumed silica (respirable dust)	mg/m3	Available	Available	Available
Australia Exposure	silica crystalline	Silica - Crystalline: Quartz (respirable dust) /	0.1	Not	Not	Not
Standards	- quartz	Quartz (respirable dust)	mg/m3	Available	Available	Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
silica amorphous	Silica gel, amorphous synthetic		18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Silica, amorphous fumed		18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	C	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous Silica, amorphous fume			45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Silica amorphous hydrated		18 mg/m3	220 mg/m3	1,300 mg/m3
silica crystalline - quartz	e - quartz Silica, crystalline-quartz; (Silicon dioxide)		0.075 mg/m3	33 mg/m3	200 mg/m3
Ingredient	Original IDLH Rev		sed IDLH		
silica amorphous	N.E. mg/m3 / N.E. ppm 3,00		,000 mg/m3		
mullite	Not Available Not		vailable		
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm	50 mg	50 mg/m3		

Exposure controls

haematite

Appropriate engineering controls Not Available

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.

Not Available

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	The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.
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. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. 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. fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

If inhalation risk above the TLV exists, wear approved dust respirator.

- Use respirators with protection factors appropriate for the exposure level.
- + Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator
- ${\bf F}$ Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
- + Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
- Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive
 pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure
 mode
- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Grey finely divided solid/powder with a slight odour; not miscible with wat	ter.
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Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	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 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)	Not Applicable
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 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	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.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. 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.

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	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	Studies show that inhaling this substance for over a l cancer. Harmful: danger of serious damage to health by protoc Crystalline silicas activate the inflammatory response exposure to crystalline silicas reduces lung capacity. Overexposure to respirable dust may cause coughing symptoms may include decreased vital lung capacity. Repeated exposures, in an occupational setting, to h pneumoconiosis which is the lodgement of any inhalwhen a significant number of particles less than 0.5 m X-ray. Symptoms of pneumoconiosis may include a p dyspnea), increased chest expansion, weakness and mucous, vital capacity decreases further and shortne altered breath sounds, diminished lung capacity, dimi (air in lung cavity) as a rare complication.	ong period (e.g. in an occupational setting) may increase the risk of onged exposure through inhalation. e of white blood cells after they injure the lung epithelium. Chronic and predisposes to chest infections. g, wheezing, difficulty in breathing and impaired lung function. Chronic y, chest infections igh levels of fine- divided dusts may produce a condition known as ed dusts in the lung irrespective of the effect. This is particularly true nicrons (1/50,000 inch), are present. Lung shadows are seen in the progressive dry cough, shortness of breath on exertion (exertional weight loss. As the disease progresses the cough produces a stringy ess of breath becomes more severe. Other signs or symptoms include nished oxygen uptake during exercise, emphysema and pneumothorax	
Millmorron Flugah	ΤΟΧΙΟΙΤΥ	IRRITATION	
Millinerran Fiyasii	Not Available	Not Available	
	тохісітү	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye (rabbit): non-irritating *	
silica amorphous	Inhalation (rat) LC50: >0.139 mg/l/14hr * ^[2]	Skin (rabbit): non-irritating *	
	Oral (rat) LD50: 3160 mg/kg ^[2]		
	тохісітү	IRRITATION	
mullite	Not Available	Not Available	
allian americalling	ΤΟΧΙΟΙΤΥ	IRRITATION	

silica crystalline - quartz	TOXICITY Not Available	IRRITATION Not Available
haematite	TOXICITY Inhalation (rat) LC50: >2.2 mg/l1 hr ^[1] Oral (rat) LD50: 14.6 mg/kg ^[1]	IRRITATION Not Available

 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

SILICA AMORPHOUS	For 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. After ingestion, there is limited accumulation of SAS in body tissues and rapid elimination occurs. Intestinal absorption has not been calculated, but appears to be insignificant in animals and humans. SASs injected subcutaneously are subjected to rapid dissolution and removal. Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]
MULLITE	No data of toxicological significance identified in literature search.
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, dyspnoea, liver tumours. * Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE : the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.
HAEMATITE	No significant acute toxicological data identified in literature search.

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SILICA AMORPHOUS & HAEMATITE	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.		
Acute Toxicity	0	Carcinogenicity	✓
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	✓
Mutagenicity	0	Aspiration Hazard	0
		Legend: X – Data ava ✓ – Data ava ○ – Data Not	ilable but does not fill the criteria for classification ilable to make classification Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
silica amorphous	LC50	96	Fish	120.743mg/L	3
silica amorphous	EC50	48	Crustacea	ca.7600mg/L	1
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
silica amorphous	EC50	384	Crustacea	28.000mg/L	3
silica amorphous	NOEC	72	Algae or other aquatic plants	60mg/L	1
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. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested **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
silica amorphous	LOW (KOC = 23.74)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

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	 be consulted. DO NOT allow wash water from cleaning or print the processary to collect all wash water In all cases disposal to sewer may be subject Where in doubt contact the responsible author Recycle wherever possible or consult manufations Consult State Land Waste Management Author Bury residue in an authorised landfill. Recycle containers if possible, or dispose of 	rocess equipment to enter drains. for treatment before disposal. to local laws and regulations and these should be considered first. rity. acturer for recycling options. ority for disposal. in an authorised landfill.
SECTION 14 TRANSPOR	RT INFORMATION	
Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	
Not Applicable SECTION 15 REGULATC	PRY INFORMATION	ecific for the substance or mixture
SILICA AMORPHOUS(763	1-86-9) IS FOUND ON THE FOLLOWING REGULA	ATORY LISTS
Australia Exposure Standar	ds	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Subst	ances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
MULLITE(1302-93-8) IS F	OUND ON THE FOLLOWING REGULATORY LISTS	3
Australia Inventory of Che	mical Substances (AICS)	
SILICA CRYSTALLINE - Q	JARTZ(14808-60-7) IS FOUND ON THE FOLLOW	ING REGULATORY LISTS
Australia Exposure Standar	ds	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Subst	ances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
HAEMATITE(1317-60-8) IS	FOUND ON THE FOLLOWING REGULATORY LIS	TS
Australia Inventory of Che	mical Substances (AICS)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	N (haematite)
Canada - NDSL	N (silica crystalline - quartz; mullite)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (haematite)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	N (mullite)
USA - TSCA	Y
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	7631-86-9, 112945-52-5, 67762-90-7, 68611-44-9, 68909-20-6, 112926-00-8, 61790-53-2, 60676-86-0, 91053-39-3, 69012-64-2, 844491-94-7
mullite	1302-93-8, 61027-90-5
silica crystalline - quartz	14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 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 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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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