

# FUM Australia(Franchi Umberto Marmi)

Chemwatch: **5650-27** Version No: **2.1** 

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

#### Chemwatch Hazard Alert Code: 2

Issue Date: **04/03/2024** Print Date: **04/03/2024** S.GHS.AUS.EN.E

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

Product Identifier	
Product name	SANDSTONE
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Use according to manufacturer's directions.
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#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	FUM Australia(Franchi Umberto Marmi)
Address	99-101, Fairbank Road Clayton South VIC 3169 Australia
Telephone	03 9546 3644
Fax	Not Available
Website	Not Available
Email	Not Available

#### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

## **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification [1]	Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Repeated Exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

# Label elements

#### Hazard pictogram(s)





Signal word Warning

# Hazard statement(s)

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.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
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.

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P314 Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point 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
Not Available		Stones composed of
14808-60-7	>60	silica crystalline - quartz
1344-28-1.	NotSpec	aluminium oxide
12136-45-7	NotSpec	potassium monoxide
8006-28-8	NotSpec	soda lime
7439-89-6	NotSpec	i <u>ron</u>
1309-48-4.	NotSpec	magnesium oxide
13463-67-7	NotSpec	titanium dioxide
Legend:	Classified by Chemwatch; 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

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	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

# 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

- 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.
- Fire Fighting

  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.

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Fire/Explosion Hazard	<ul> <li>Equipment should be thoroughly decontaminated after use.</li> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of: silicon dioxide (SiO2) metal oxides</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> <li>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.</li> <li>When heated to extreme temperatures, (&gt;1700 deg.C) amorphous silica can fuse.</li> <li>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.</li> </ul>
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	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosion-proof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum cleaners should NOT be used on wet materials or surfaces.</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Contain or absorb spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

SECTION 7 Handling and storage		
Precautions for safe handling		
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>	

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#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.</li> <li>These trifluorides are hypergolic oxidisers. They ignite 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.</li> <li>The state of subdivision may affect the results.</li> <li>Avoid strong acids, bases.</li> </ul>

#### **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 crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)	0.05 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	magnesium oxide	Magnesium oxide (fume)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
silica crystalline - quartz	0.075 mg/m3	33 mg/m3	200 mg/m3
aluminium oxide	15 mg/m3	170 mg/m3	990 mg/m3
potassium monoxide	0.18 mg/m3	2 mg/m3	54 mg/m3
soda lime	1 mg/m3	240 mg/m3	1,500 mg/m3
iron	3.2 mg/m3	35 mg/m3	150 mg/m3
magnesium oxide	30 mg/m3	120 mg/m3	730 mg/m3
titanium dioxide	30 mg/m3	330 mg/m3	2,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
aluminium oxide	Not Available	Not Available
potassium monoxide	Not Available	Not Available
soda lime	Not Available	Not Available
iron	Not Available	Not Available
magnesium oxide	750 mg/m3	Not Available
titanium dioxide	5,000 mg/m3	Not Available

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
potassium monoxide	С	> 0.1 to ≤ milligrams per cubic meter of air (mg/m³)	
soda lime	С	> 0.1 to ≤ milligrams per cubic meter of air (mg/m³)	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

# Appropriate engineering controls

# F Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.

- Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.
- Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.
- Open-vessel systems are prohibited.
- Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.
- Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean

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make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated areas). Local exhaust ventilation requires make-up air be supplied in equal volumes to replaced air. Laboratory hoods must be designed and maintained so as to draw air inward at an average linear face velocity of 0.76 m/sec with a minimum of 0.64 m/sec. Design and construction of the fume hood requires that insertion of any portion of the employees body, other than hands and arms, be disallowed. Individual protection measures, such as personal protective equipment Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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 Eye and face protection and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. Skin protection See Hand protection below 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. Hands/feet protection butyl rubber. fluorocaoutchouc. polyvinyl chloride Gloves should be examined for wear and/ or degradation constantly. **Body protection** See Other protection below Overalls. P.V.C apron.

#### Respiratory protection

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

Barrier cream.Skin cleansing cream.Eye wash unit.

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

 $^{\star}$  - Negative pressure demand  $^{\star\star}$  - Continuous flow

Other protection

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)

- · 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.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- $\boldsymbol{\cdot}$  Try to avoid creating dust conditions.

Where significant concentrations of the material are likely to enter the breathing zone, a Class P3 respirator may be required.

Class P3 particulate filters are used for protection against highly toxic or highly irritant particulates.

Filtration rate: Filters at least 99.95% of airborne particles

Suitable for:

- $\cdot \ \text{Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.}$
- · Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS
- · Highly toxic particles e.g. Organophosphate Insecticides, Radionuclides, Asbestos

Note: P3 Rating can only be achieved when used with a Full Face Respirator or Powered Air-Purifying Respirator (PAPR). If used with any other respirator, it will only provide filtration protection up to a P2 rating.

#### **SECTION 9 Physical and chemical properties**

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Appearance	Basic stone colour solid with no odour; does not mix with water.		
Physical state	Solid	Relative density (Water = 1)	2.0-4.0
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 (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
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)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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**

Not Available

Information	on	toxicological	effects
minorimation	011	toxicological	CITCOLS

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. 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.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	This material can cause eye irritation and damage in some persons.		
Chronic	include decreased vital lung capacity and chest infections. Repeated ex a condition known as pneumoconiosis, which is the lodgement of any in when a significant number of particles less than 0.5 microns (1/50000 in pneumoconiosis may include a progressive dry cough, shortness of bre. As the disease progresses, the cough produces stringy phlegm, vital ca Other signs or symptoms include changed breath sounds, reduced oxyg the lung cavity).  Removing workers from the possibility of further exposure to dust gener for worker exposure, examinations at regular period with emphasis on lu	cancer in humans. gh inhalation, in contact with skin and if swallowed. periods. It can be assumed that it contains a substance which can e some concern following repeated or long-term occupational exposure. ifficulty in breathing and impaired lung function. Chronic symptoms may posures in the workplace to high levels of fine-divided dusts may product haled dusts in the lung, irrespective of the effect. This is particularly true high are present. Lung shadows are seen in the X-ray. Symptoms of ath on exertion, increased chest expansion, weakness and weight loss. pacity decreases further, and shortness of breath becomes more severe. gen uptake during exercise, emphysema and rarely, pneumothorax (air in rally stops the progress of lung abnormalities. When there is high potentia	
	TOXICITY	IRRITATION	
SANDSTONE FUMAUS	Not Available	Not Available	

Not Available

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silica crystalline - quartz		IDDITATION	
	TOXICITY  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>	IRRITATION  Not Available	
	Oral (Nat) EDSU. SUU Hig/kgr 3	Not Available	
	TOXICITY	IRRITATION	
aluminium oxide	Inhalation(Rat) LC50: >0.888 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
potassium monoxide	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	тохісіту	IRRITATION	
soda lime	Not Available	Not Available	
	TOXICITY	IRRITATION	
iron	Oral (Rat) LD50: 98600 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY	IRRITATION	
magnesium oxide	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
titanium dioxide	Inhalation(Rat) LC50: >2.28 mg/l4h <sup>[1]</sup>	Skin (human): 0.3 mg /3D (int)-mild *	
	Oral (Rat) LD50: >=2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
		'	
SILICA CRYSTALLINE - QUARTZ	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 ludisease.  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).		
WORKE	* Millions of particles per cubic foot (based on impinger sar		
Jonitz	* Millions of particles per cubic foot (based on impinger sar NOTE : the physical nature of quartz in the product determ material must enter the breathing zone as respirable partic	mples counted by light field techniques). ines whether it is likely to present a chronic health problem. To be a hazard the les.	
SODA LIME	* Millions of particles per cubic foot (based on impinger sar NOTE : the physical nature of quartz in the product determ material must enter the breathing zone as respirable partic	mples counted by light field techniques). ines whether it is likely to present a chronic health problem. To be a hazard the	
	* Millions of particles per cubic foot (based on impinger sar NOTE: the physical nature of quartz in the product determ material must enter the breathing zone as respirable partic.  The material may produce severe irritation to the eye caus produce conjunctivitis.  The following information refers to contact allergens as a contact allergies quickly manifest themselves as contact eczema involves a cell-mediated (T lymphocytes) immune involve antibody-mediated immune reactions. The signification of the substance and the opportunities for cont distributed can be a more important allergen than one with	inples counted by light field techniques). ines whether it is likely to present a chronic health problem. To be a hazard the les. ing pronounced inflammation. Repeated or prolonged exposure to irritants may roup and may not be specific to this product. czema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria,	
SODA LIME	* Millions of particles per cubic foot (based on impinger san NOTE: the physical nature of quartz in the product determ material must enter the breathing zone as respirable partic.  The material may produce severe irritation to the eye caus produce conjunctivitis.  The following information refers to contact allergens as a grace contact allergies quickly manifest themselves as contact eczema involves a cell-mediated (T lymphocytes) immune involve antibody-mediated immune reactions. The significal distribution of the substance and the opportunities for contract distributed can be a more important allergen than one with clinical point of view, substances are noteworthy if they producing producing mutation.  Exposure to titanium dioxide is via inhalation, swallowing of dysfunction of the lungs and immune system. Absorption be outermost layer of the skin, suggesting that healthy skin meases have been reported in experimental animals. Studie	ing pronounced inflammation. Repeated or prolonged exposure to irritants may be pronounced inflammation. Repeated or prolonged exposure to irritants may roup and may not be specific to this product.  Czema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, ince of the contact allergen is not simply determined by its sensitisation potential: the act with it are equally important. A weakly sensitising substance which is widely stronger sensitising potential with which few individuals come into contact. From a induce an allergic test reaction in more than 1% of the persons tested.  The material may result in a possible risk of irreversible effects, with the possibility or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing the stomach and intestines depends on the size of the particle. It penetrated only as be an effective barrier. There is no substantive data on genetic damage, though is have differing conclusions on its cancer-causing potential.	
SODA LIME MAGNESIUM OXIDE	* Millions of particles per cubic foot (based on impinger sar NOTE: the physical nature of quartz in the product determ material must enter the breathing zone as respirable partic.  The material may produce severe irritation to the eye caus produce conjunctivitis.  The following information refers to contact allergens as a contact allergies quickly manifest themselves as contact eczema involves a cell-mediated (T lymphocytes) immune involve antibody-mediated immune reactions. The significa distribution of the substance and the opportunities for cont distributed can be a more important allergen than one with clinical point of view, substances are noteworthy if they producing mutation.  Exposure to titanium dioxide is via inhalation, swallowing of dysfunction of the lungs and immune system. Absorption be outermost layer of the skin, suggesting that healthy skin mediates.	ing pronounced inflammation. Repeated or prolonged exposure to irritants may roup and may not be specific to this product.  czema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, ince of the contact allergen is not simply determined by its sensitisation potential: the act with it are equally important. A weakly sensitising substance which is widely stronger sensitising potential with which few individuals come into contact. From a induce an allergic test reaction in more than 1% of the persons tested.  The material may result in a possible risk of irreversible effects, with the possibility of the stomach and intestines depends on the size of the particle. It penetrated only ay be an effective barrier. There is no substantive data on genetic damage, though is have differing conclusions on its cancer-causing potential.  C as Group 2B: Possibly Carcinogenic to Humans.	

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POTASSIUM MONOXIDE & TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.				
POTASSIUM MONOXIDE & SODA LIME	The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function.				
POTASSIUM MONOXIDE & SODA LIME & TITANIUM DIOXIDE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles scaling and thickening of the skin				
	v		V		
Acute Toxicity	X	Carcinogenicity	X		
Skin Irritation/Corrosion	X	X Reproductivity X			
Serious Eye Damage/Irritation	✓ STOT - Single Exposure X				
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	✓		
Mutagenicity	×	Aspiration Hazard	×		

Legend:

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

# **SECTION 12 Ecological information**

# Toxicity

	Endpoint	Test Duration (hr)	Species		Value	Source
ANDSTONE FUMAUS	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	e	Source
	EC50	96h	Algae or other aquatic plants	0.005	5mg/L	2
	EC50	48h	Crustacea	0.736	6mg/L	2
aluminium oxide	EC50	72h	Algae or other aquatic plants	0.017	7mg/L	2
	NOEC(ECx)	72h	Algae or other aquatic plants	>100	)mg/l	1
	LC50	96h	Fish	0.078	8-0.108mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	<b>)</b>	Source
	EC50	96h	Algae or other aquatic plants	1368.	296mg/l	2
potassium monoxide	EC50	48h	Crustacea	>=480	0<=880mg/l	2
	EC50(ECx)	504h	Crustacea	68mg	/I	2
	LC50	96h	Fish	880m	g/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
soda lime	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value		Sourc
:	EC50	48h	Crustacea	>100mg/l		2
						2
iron	EC50	72h	Algae or other aquatic plants	18mg/l		
iron	EC50 NOEC(ECx)	72h 48h	Algae or other aquatic plants  Algae or other aquatic plants	18mg/l 0.1-4mg/l		4
iron				0.1-4mg/l		4
iron	NOEC(ECx)	48h	Algae or other aquatic plants	0.1-4mg/l		
iron magnesium oxide	NOEC(ECx)	48h 96h	Algae or other aquatic plants Fish	0.1-4mg/l	).00819mg/l	4 Source
	NOEC(ECx) LC50  Endpoint Not	48h 96h Test Duration (hr)	Algae or other aquatic plants Fish  Species	0.1-4mg/l 0.00499-0	Value Not Available	Source Not Available
	NOEC(ECx) LC50  Endpoint Not Available	48h 96h  Test Duration (hr)  Not Available	Algae or other aquatic plants  Fish  Species  Not Available	0.1-4mg/l 0.00499-0	Value Not Available	Source Not Availabl
	NOEC(ECx) LC50  Endpoint Not Available  Endpoint	48h 96h  Test Duration (hr)  Not Available  Test Duration (hr)	Algae or other aquatic plants  Fish  Species  Not Available  Species	0.1-4mg/l 0.00499-0 Va	Value Not Available	Source Not Availabl
	NOEC(ECx) LC50  Endpoint Not Available  Endpoint EC50	48h 96h  Test Duration (hr)  Not Available  Test Duration (hr) 96h	Algae or other aquatic plants  Fish  Species  Not Available  Species  Algae or other aquatic plants	0.1-4mg/l 0.00499-0 <b>Va</b> 17	Value Not Available  Solution  10.00819mg/l Not Available  10.05mg/l 11-9.6	Source Not Available Source 2
magnesium oxide	NOEC(ECx) LC50  Endpoint Not Available  Endpoint EC50 BCF	48h 96h  Test Duration (hr)  Not Available  Test Duration (hr) 96h 1008h	Algae or other aquatic plants  Fish  Species  Not Available  Species  Algae or other aquatic plants  Fish	0.1-4mg/l 0.00499-0  Va 17 <1.5	Value Not Available  Not Silue 9.05mg/l .1-9.6 9mg/l	Source Not Availabl Source 2 7
magnesium oxide	NOEC(ECx) LC50  Endpoint Not Available  Endpoint EC50 BCF EC50	48h 96h  Test Duration (hr)  Not Available  Test Duration (hr) 96h 1008h 48h	Algae or other aquatic plants  Fish  Species  Not Available  Species  Algae or other aquatic plants  Fish  Crustacea	0.1-4mg/l 0.00499-0  Va 17 <1.5 3.7	Value Not Available  Not Silue 9.05mg/l .1-9.6 9mg/l	Source Not Availabl Source 2 7 2
magnesium oxide	NOEC(ECx) LC50  Endpoint Not Available  Endpoint EC50 BCF EC50	48h 96h  Test Duration (hr)  Not Available  Test Duration (hr) 96h 1008h 48h	Algae or other aquatic plants  Fish  Species  Not Available  Species  Algae or other aquatic plants  Fish  Crustacea	0.1-4mg/l 0.00499-0	1	Value Not

- Bioconcentration Data 8. Vendor Data

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#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
titanium dioxide	LOW (BCF = 10)	

# Mobility in soil

Ingredient	Mobility	
titanium dioxide	LOW (KOC = 23.74)	

#### **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.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

#### **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

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
silica crystalline - quartz	Not Available
aluminium oxide	Not Available
potassium monoxide	Not Available
soda lime	Not Available
iron	Not Available
magnesium oxide	Not Available
titanium dioxide	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
silica crystalline - quartz	Not Available
aluminium oxide	Not Available
potassium monoxide	Not Available
soda lime	Not Available
iron	Not Available
magnesium oxide	Not Available
titanium dioxide	Not Available

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#### **SECTION 15 Regulatory information**

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

#### silica crystalline - quartz is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

#### aluminium oxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### potassium monoxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### soda lime is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### iron 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 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  ${\bf 5}$ 

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

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### magnesium oxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### Additional Regulatory Information

Not Applicable

# National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (soda lime)		
Canada - NDSL	No (silica crystalline - quartz; aluminium oxide; potassium monoxide; soda lime; iron; magnesium oxide)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	No (soda lime)		
Japan - ENCS	No (soda lime; iron)		
Korea - KECI	No (soda lime)		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	No (soda lime)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (soda lime)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (soda lime)		
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**

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Initial Date	04/03/2024

#### SDS Version Summary

Version	Date of	Sections Updated	

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	Update	
2.1	04/03/2024	Toxicological information - Acute Health (inhaled), Toxicological information - Chronic Health, Hazards identification - Classification, Firefighting measures - Fire Fighter (fire/explosion hazard), First Aid measures - First Aid (inhaled), Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (Respirator), Exposure controls / personal protection - Personal Protection (hands/feet), Handling and storage - Storage (storage incompatibility)

#### 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. 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
- ► 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
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ 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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