

Safety Data Sheet

1. Product Name: Tecgrout HES
Classified as Hazardous

Identification

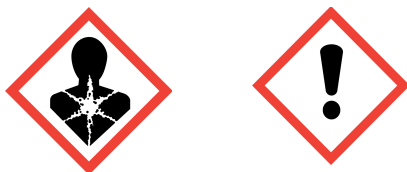
Company Name Aitken Freeman Pty Ltd
Address Unit 7, 7 – 9 Brough St. Springvale Vic 3171
Contact: Ph. (03) 9701 3955 Fx. (03) 9701 3956

2. Hazard Identification:

GHS Classification Skin corrosion/irritation - Category 2
Skin sensitization – Category 1B
Serious eye damage/irritation – Category 1
Specific target organ systemic toxicity (repeated exposure) – Category 2

Signal Word Danger
Hazard Statement Causes skin irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Pictogram(s)

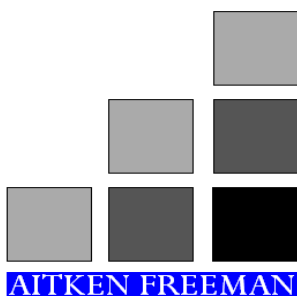


Hazard statements

H315 Causes skin irritation. H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to lungs and respiratory tract through prolonged or repeated exposure.

Prevention statements

P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.



Response statements

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal statements

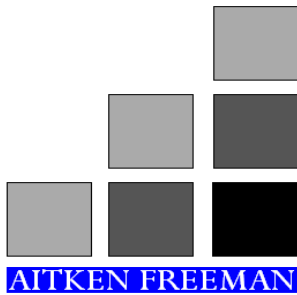
P501	Dispose of contents/container in accordance with relevant regulations.
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UN No	None Allocated	Hazchem Code	None Allocated	Pkg Group	None Allocated
DG Class	None Allocated	Subsidiary Risk(s)	None Allocated	EPG	None Allocated

3. Composition / information on ingredients

A small proportion of the fine dust associated with this product will contain 'Respirable Crystalline Quartz' (RCQ). While the product is wet and being applied as per the directions on the package the amount of airborne RCQ will be minimal but it is still recommended that proper PPE is worn. Once dry any residues, grinding or strong abrasive forces may reintroduce RCQ into the air so caution should be taken.

Ingredient	Formula	Conc.	CAS No.
PORTLAND CEMENT	Not Available	40 - 55%	65997-15-1
CRYSTALLINE SILICA (QUARTZ)	SiO ₂	40 - 60%	14808-60-7
CHROMIUM (VI) HEXAVALENT	Cr ⁶⁺	Trace	18540-29-9
GYPSUM	CaSO ₄ 2H ₂ O	1 - 4%	10101-41-4
FLY ASH	Not Available	0 - 3%	68131-74-8
ADDITIVES	Not Available	< 1%	-



4. First Aid Measures

- Eye** Flush thoroughly with flowing water for at least 15 minutes and seek medical attention if symptoms persist. If wet cement is splashed into the eyes flush thoroughly with flowing water for 15 minutes and seek urgent medical attention.
- Inhalation** Remove from dusty area to fresh air. If symptoms persist, seek medical attention.
- Skin** Remove heavily contaminated clothing immediately. Wash off skin thoroughly with water. A shower may be required. Seek medical attention for persistent irritation or burning of the skin
- Ingestion** Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
- Advice to Doctor** Treat symptomatically.
- First Aid Facilities** Eye wash station.

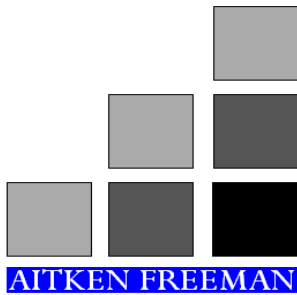
Additional Information - Aggravated Medical Conditions

- Inhalation** Over exposure resulting from prolonged and repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung.) It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs) and lung cancer. Epidemiological studies have shown that smoking increases the risk of bronchitis, silicosis (scarring of the lung) and lung cancer in persons exposed to crystalline silica.
- Skin** Prolonged and repeated skin contact with cement in wet concrete, mortars and slurries may result in irritant dermatitis or alkaline burns.
- Eye** Irritating to the eye. If wet cement is splashed into the eye alkaline burns can cause permanent damage.

5. Fire fighting measures

- Flammability** Non flammable. Does not support combustion of other materials.
- Fire and Explosion** No fire or explosion hazard exists.
- Extinguishing** Non flammable; use suitable extinguishing agent for surrounding fire.
- Hazchem Code** None.

- Spillage** If spilt (bulk), contact emergency services if appropriate. Wear dust-proof goggles, PVC/rubber gloves, a Class P2 respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.
- Emergency Procedures** Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.



6. Accidental Release Measures

Emergency Procedures Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

7. Handling and storage

Storage Store in a cool, dry, well ventilated area, removed from excessive moisture and heat. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Property Refer to Section 13.

8. Exposure Controls

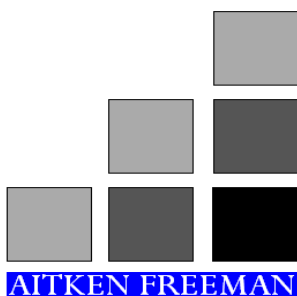
Ventilation Do not inhale dust/powder. Use with adequate ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

Exposure Standards
 CHROMIUM (VI) HEXAVALENT (18540-29-9)
 ES-TWA: 0.05 mg/m³ (Chromium VI compounds)
 FLYASH (68131-74-8)
 ES-TWA: 10 mg/m³ (Respirable Dust)
 GYPSUM (10101-41-4)
 ES-TWA: 10 mg/m³ (Respirable Dust)
 PORTLAND CEMENT (65997-15-1)
 ES-TWA: 10 mg/m³ (Respirable Dust)
 SILICA, CRYSTALLINE – QUARTZ (14808-60-7)
 ES-TWA: 0.1 mg/m³ (Respirable Dust)

PPE Wear dust-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Class P2 respirator. If there is potential for prolonged and/or excessive skin contact, wear coveralls. At high dust levels, wear a Class P3 respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 filter.

9. Physical and Chemical Properties

Appearance	A grey mixture containing Cement, Fly Ash and Sand	Solubility (water)	Slight, hardens on mixing with water
Odour	Slight Odour	Specific Gravity	Average Approx 2.2
pH	Approximately 12	% Volatiles	Not Available
Vapour Pressure	Not Available	Flammability	Non Flammable
Vapour Density	Not Available	Flash Point	Not Relevant
Boiling Point	Not Available	Upper Explosion Limit	Not Relevant
Melting Point	>1200oC	Lower Explosion Limit	Not Relevant
Evaporation Rate	Not Available	Autoignition Temperature	Not Available



10 Stability and Reactivity

Chemical Stability Chemically Stable

Conditions to Avoid Keep free of moisture

Incompatible Incompatible with oxidising agents (eg hypochlorites), ethanol, acids (eg hydrofluoric acid)

Decomposition Unlikely to evolve toxic gases when heated to decomposition.

Products

Hazardous Reactions None

11 Toxicological Information

Acute Toxicity

No known toxicity data available for this product.

Eye

Irritant upon contact with dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.

Inhalation

Irritating to the respiratory system, causing coughing and sneezing. Over exposure may result in severe mucous membrane irritation and bronchitis. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use. Crystalline silica can cause silicosis (lung disease) with chronic over exposure, however due to low levels present and product application, adverse health effects are not anticipated.

Skin

Irritating to the skin. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.

Ingestion

Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.

Mutagenicity

Insufficient data available for this product to classify as a mutagen.

Carcinogenicity

Grouts are not classified as a carcinogen by NOHSC. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to low levels present and product application, the criteria for classification is not met.

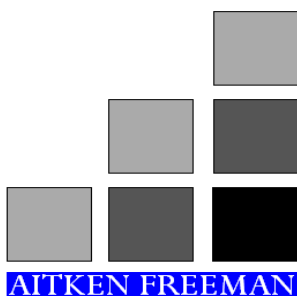
12 Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Significant environmental findings are limited.



13 Disposal Considerations

Product / Packaging Disposal

Containers may still present a chemical hazard/ danger when empty.
 Legislation addressing waste disposal requirements may differ by state and/ or territory. Each user must refer to laws operating in their area.
 This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
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 Authority for disposal.
 Bury or incinerate residue at an approved site.
 Recycle containers if possible, or dispose of in an authorised landfill.

14 Transport Information

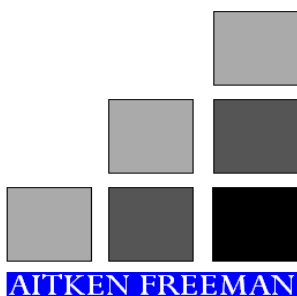
Labels Required



Land Transport

UN No.
Proper Shipping Name
Transport Hazard Class
Packing Group
Environmental Hazard
Hazchem

None Allocated
 None Allocated
 None Allocated
 None Allocated
 Not Applicable
 None Allocated



15 Regulatory Information

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classification Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

Hazard Codes Xi Irritant
Xn Harmful

Risk phrases R36/37/38 Irritating to eyes, respiratory system and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS, or are exempt.

16 Other Information

Additional information PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.