

Material Safety Data Sheet

Alex Fraser Recycled Sand

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

Product Name: Alex Fraser Recycled Sand

Other Names:

Recommended use: VsoL backfill material, General back-fill material, Road construction material.

Supplier: Alex Fraser Group
ABN: 18067043994
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Australia

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2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD by the criteria of the Australian Dangerous Goods Code

CRYSTALLINE SILICA IS LISTED BY IARC AS A CARCINOGEN (GROUP 1)

Potential Health Effects:

Routes of Entry: Inhalation: Yes Skin: Yes Eye: Yes Ingestion: Not likely

Health Hazards: May cause slight eye and skin irritation, as well as irritation of the upper respiratory passages.

Signs/symptoms of Overexposure:

Silicosis caused by lung scarring from silica dust. Inhalation may lead to chest pain, cough and decreased vital capacity.

Chronic effects:

Prolonged and repeated exposure can lead to fibrosis and impaired respiratory functions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	CAS Number	Proportion (Weight %)
Silica, Crystalline Quartz	14808-60-7	1 %
Non Hazardous Ingredient	NA	Balance to 100%

Material Safety Data Sheet

Alex Fraser Recycled Sand

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water until no evidence of product remains. Obtain medical attention if irritation develops.

SKIN CONTACT: Rinse affected area with plenty of water until all product removed. Remove contaminated clothing. Obtain medical attention if irritation persists.

INHALATION: If overexposure does occur, remove person from area immediately and administer fresh air. Should symptoms develop, contact a doctor.

INGESTION: Considered unlikely: For advice contact physician or local poison control centre.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD – Non flammable – no fire or explosion hazard

FIRE FIGHTING MEDIA - Non flammable – Use appropriate media for surrounding fire

FIRE FIGHTING Wear self-contained breathing apparatus in heavy concentrations of dust.

6. ACCIDENTAL RELEASE MEASURES

If spilled, clean up using methods that will produce minimum dust. Wear dust-proof goggles, PVC/rubber gloves and Class P1 respirator, if inhalation risk is present. Collect spilled material and place in sealed containers for disposal. Reclaim and reuse where possible.

7. HANDLING AND STORAGE

HANDLING AND STORAGE CONDITIONS: Store in well-ventilated area and use safe work practices to avoid exposure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Crystalline silica is listed by IARC as a Group 1 carcinogen

Gloves: Wear PVC/rubber gloves.

Eye protection: Wear dust-proof goggles.

Respiratory Tract: Where inhalation risk exists wear Class P1 (particulate) respirator

Ventilation: Area must be well ventilated. If heavy airborne dust exists mechanical ventilation may be necessary

Other protective equipment: Wear overalls where heavy contamination is likely.

Material Safety Data Sheet

Alex Fraser Recycled Sand

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Granules

Appearance: Light brown, white

Odour: Odourless

Melting point: $>1200^{\circ}\text{C}$

Flammability range: Non Flammable

Relative density, Not Available

Solubility in water: Insoluble

10. STABILITY AND REACTIVITY

Chemical Stability: stable

Incompatibility: Will react with some strong acids (Hydrofluoric acid).

Hazardous Decomposition: NA

Conditions to avoid: High temperatures (above 900°C)

Conditions which promote the generation of respirable dust should be avoided including grinding and machining. Use appropriate ventilation and/or respiratory protection unless exposure levels are known to be below permitted exposure levels.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary:

Crystalline silica (quartz) is classified as carcinogenic to humans (IARC Group 1). However, the quartz content of the product is low and it is unlikely that the respirable dust concentration would exceed the occupational exposure standard for crystalline silica under conditions of normal use.

Chronic toxicity. Adverse health effects are usually associated with long term exposure to high quartz dust levels. Avoid dust generation. Chronic exposure may cause lung fibrosis (silicosis). Effects may be delayed. The risk of disease is increased by smoking.).

Eye: Low irritant. Exposure may result in irritation.

Inhalation: Low irritant. Over exposure at high levels may result in irritation of the nose and throat with coughing. Prolonged and repeated inhalation of respirable crystalline silica may result in pulmonary fibrosis (silicosis).

Skin: Low irritant. Prolonged and repeated exposure to dust may result in irritation and dermatitis.

Ingestion: Low toxicity. This product is biologically inert. However, ingestion may result in gastrointestinal irritation due to the powder's mechanical action.

12. ECOLOGICAL INFORMATION

Currently there is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Dispose of empty containers in accordance with Local Regulations.
Reclaim and reuse product where possible.

Material Safety Data Sheet

Alex Fraser Recycled Sand

14. TRANSPORT INFORMATION

Not classified as a Dangerous Good for Road and Rail Transport (Australian Dangerous Goods Code):

Proper Shipping Name: None allocated

UN Number: None allocated

Class: None allocated

Packaging Group: None allocated

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances (AICS): All components are listed on the inventory.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP): Not Scheduled

16. OTHER INFORMATION

Additional α -Quartz IARC - GROUP 1 - CONFIRMED HUMAN CARCINOGEN. This product contains an ingredient for Information which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

IARC - International Agency for Research on Cancer

This Material Safety Data Sheet has been prepared by Hodson & Associates Pty Ltd on behalf of Alex Fraser Group Australia.

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Alpha-quartz (% w/w): 1.0 ± 0.5 (WCA.115 Method)