

### 1. Identification

Product identifier	OREAS 70B	
Other means of identification		
Product code	Q0203078	
Recommended use of the chemi	cal and restrictions on use	
Recommended use	Used as a check standard for soil and geochem calibrations.	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Evident Scientific Singapore PTE. LTD.	
Address	25 Ubi Road 4, UBIX, #04-04/05 Singapore 408621	
	Singapore 119968	
Telephone number	+65 62-50-11-18	
Fax	+	
Emergency telephone number	CHEMTREC	
	US: 1-800-424-9300, International: +1-703-527-3887	

### 2. Hazards identification

GHS classification		
Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1A
	Specific target organ toxicity following repeated exposure	Category 1
Environmental hazards	Not classified.	

#### GHS label elements, including precautionary statements

Pictograms
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Signal word	Danger
Hazard statements	May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

Substance or mixture	Mixture		
Chemical name	Common name and synonyms	CAS Number	Concentration (%)
High grade massive nick ore and barren ultramafic		-	100

			Concentration (%)
Quartz		14808-60-7	-
Nickel sulphide		16812-54-7	-
Composition comments	The hazard evaluation is based on the content of nickel su	ulphide.	
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms develop or	persist.	
Skin contact	Remove contaminated clothing immediately and wash ski eczema or other skin disorders: Seek medical attention ar		
Eye contact	Do not rub eyes. Rinse with water. Get medical attention i	f irritation develops	and persists.
ngestion	Rinse mouth. Get medical attention if symptoms occur.		
Nost important symptoms/effects, acute and lelayed	Dusts may irritate the respiratory tract, skin and eyes. May Dermatitis. Rash. Prolonged exposure may cause chronic		skin reaction.
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat symptoma Symptoms may be delayed.	tically. Keep victim	under observation.
General information	IF exposed or concerned: Get medical advice/attention. If (show the label where possible). Ensure that medical pers involved, and take precautions to protect themselves. Sho attendance. Wash contaminated clothing before reuse.	onnel are aware of	f the material(s)
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding	naterials.	
Jnsuitable extinguishing nedia	None known.		
Specific hazards arising from he chemical	None known.		
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clot	hing must be worn	in case of fire.
Specific methods	Use standard firefighting procedures and consider the haz	ards of other involv	ved materials.
General fire hazards	The product is non-combustible.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away fro appropriate protective equipment and clothing during clea damaged containers or spilled material unless wearing ap adequate ventilation. Local authorities should be advised contained. For personal protection, see section 8 of the S	n-up. Do not breath propriate protective if significant spillag	ne dust. Do not touch e clothing. Ensure
Environmental precautions	Avoid discharge into drains, water courses or onto the gro	und.	
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfact generation and accumulation. Collect dust using a vacuur the flow of material, if this is without risk.		
	Large Spills: Wet down with water and dike for later dispo container. Following product recovery, flush area with wat		terial into waste
	Small Spills: Sweep up or vacuum up spillage and collect	in suitable containe	er for disposal.
	Never return spills to original containers for re-use. Put ma containers. For waste disposal, see section 13 of the SDS		overed, labeled
7. Handling and storage			
Precautions for safe handling	Obtain special instructions before use. Do not handle unti and understood. Minimise dust generation and accumulat ventilation at places where dust is formed. Do not breathe clothing. When using, do not eat, drink or smoke. Should possible. Wear appropriate personal protective equipment Observe good industrial hygiene practices.	ion. Provide approp dust. Avoid contac be handled in close	oriate exhaust ot with eyes, skin, and ed systems, if
Conditions for safe storage,	Store locked up. Store in tightly closed container. Store in	a well-ventilated n	lace Store away from

## 8. Exposure controls/personal protection

### Occupational exposure limits

Constituents	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
ontrol parameters/Occupation	nal exposure limits		
US. ACGIH Threshold Limi	t Values		
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	0.2 mg/m3	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
ontrol measures	applicable, use process enclosures, lo maintain airborne levels below recomm established, maintain airborne levels to any operation which may generate dus exposures below the recommended exposures below the recommended exp	nended exposure limits. If expo o an acceptable level. If materi sts, use appropriate local exha cposure limits.	osure limits have not been al is ground, cut, or used i
Eye/face protection measures	s, such as personal protective equipme Use tight fitting goggles if dust is generative		
Skin protection			
Hand protection	Wear appropriate chemical resistant gl	oves.	
Other	Wear appropriate chemical resistant cl	othing. Use of an impervious a	apron is recommended.
	Wear respirator with dust filter.		
Respiratory protection			
Respiratory protection Thermal hazards	Wear appropriate thermal protective cl	othing, when necessary.	

### 9. Physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Powder.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	This material will not burn.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
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Decomposition temperature	Not available.
Viscosity	Not available.
Other data	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

#### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Powerful oxidizers. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material.	
Skin contact	Dust or powder may irritate the skin. May cause an allergic skin reaction.	
Eye contact	Dust may irritate the eyes.	
Ingestion	Expected to be a low ingestion hazard.	
Acute toxicity	Not expected to be acutely toxic.	
Symptoms	Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitisation		
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	Suspected of causing genetic defects.	
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall E	valuation of Carcinogenicity	
Nickel sulphide (CAS 168	12 E4 Z) 1 Caroinagania ta humana	
Quartz (CAS 14808-60-7)		
• •		
Quartz (CAS 14808-60-7)	1 Carcinogenic to humans.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity -	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure. Not an aspiration hazard. Causes damage to organs through prolonged or repeated exposure.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure. Not an aspiration hazard. Causes damage to organs through prolonged or repeated exposure.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure. Not an aspiration hazard. Causes damage to organs through prolonged or repeated exposure.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure. Not an aspiration hazard. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.	
Quartz (CAS 14808-60-7) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Persistence and degradability	1 Carcinogenic to humans. This product is not expected to cause reproductive or developmental effects. Not classified. Causes damage to organs through prolonged or repeated exposure. Not an aspiration hazard. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. No data is available on the degradability of any ingredients in the mixture.	

# 13. Disposal considerations

Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

### 14. Transport information

#### ADR

Not regulated as dangerous goods.

## RID

Not regulated as dangerous goods.

## ADN

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods. **Transport in bulk according to** Not applicable. **Annex II of MARPOL 73/78 and the IBC Code** 

### 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

**Chemical Weapons Prohibition (Act)** 

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Not applicable.
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#### Environmental Protection and Management (Hazardous Substances) Regulations

Not applicable.

Environmental Public Health Act

Not applicable.

#### International regulations

**Montreal Protocol** 

Not applicable. Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol Not applicable.

Basel Convention

Not applicable.

### 16. Other information

References	Not available.
Issued by Company name	Evident Scientific
Prepared by Title	Evident Scientific
Disclaimer	Evident Scientific cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
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Key/legend	Not applicable.