E VIDENT

SAFETY DATA SHEET

Section 1: Identification

Product identifier OREAS 70B

Other means of identification

Product code Q0203078

Recommended use of the chemical and restrictions on use

Used as a check standard for soil and geochem calibrations. Recommended use

Restrictions on use None known.

Details of manufacturer or importer

Evident Australia PTY LTD Company name

Level 4, 97 Waterloo Road, Macquarie Park NSW 2113 **Address**

Australia

+1800-844-211 Telephone number

Fax

Emergency telephone

number

CHEMTREC US: 1-800-424-9300, International: +1-703-527-3887

Emergency Tel: 13 11 26 (Poison Information Centre)

Section 2: Hazard identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

> Germ cell mutagenicity Category 2 Carcinogenicity Category 1A Specific target organ toxicity following Category 1

repeated exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements, including precautionary statements

Hazard symbol(s)



Health Exclamation hazard mark

Signal word Danger

May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. Hazard statement(s)

Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with

long lasting effects.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

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.

Avoid release to the environment. Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical Response

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.

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OREAS 70B 947538 Version #: 02 **HSNO** classification 6.5B - Substances that are contact sensitizers

6.6B - Substances that are suspected human mutagens

6.7A - Substances that are known or presumed human carcinogens 6.9A - Substances that are toxic to human target organs or systems 9.1C - Substances that are harmful in the aquatic environment

Supplemental information None.

Section 3: Composition/information on ingredients

Mixture Substance or mixture

Chemical property	CAS Number	Concentration (%)
High grade massive nickel sulfide ore and barren ultramafic material	-	100
Constituents	CAS Number	Concentration (%)
Quartz	14808-60-7	-
Nickel sulphide	16812-54-7	-

Composition comments The hazard evaluation is based on the content of nickel sulphide.

Section 4: First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance. Wash contaminated clothing before reuse.

Symptoms caused by exposure Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction.

Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

Section 5: Fire-fighting measures

Extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Extinguishing media to avoid None known.

HAZCHEM Code Number

Specific hazards during fire

fighting

None known.

None.

Special fire fighting

procedures

Use water spray to cool unopened containers.

Protection of fire-fighters

Hazards from combustion

products

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

None.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be

contained. For personal protection, see section 8 of the SDS.

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the For emergency responders

SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

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drains, water courses or onto the ground.

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Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimise dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Section 7: Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

Section 8: Exposure controls/personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

New Zealand. WES. (Workplace E			_
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	1 mg/m3	Dust and fume.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
US. ACGIH Threshold Limit Value	s		
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.
UK. EH40 Workplace Exposure Li	mits (WELs)		
Constituents	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
Australia. National Workplace OE	Ls (Workplace Exposure Star	ndards for Airborne Contamina	nts. Appendix A)
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	1 mg/m3	Dust and fume.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Australia. OELs. (Adopted Nationa Environment)	al Exposure Standards for At	mospheric Contaminants in the	Occupational
Environnent)			

Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	1 mg/m3	Dust and fume.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Use tight fitting goggles if dust is generated.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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Wear respirator with dust filter. Respiratory protection

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Hygiene measures Observe any medical surveillance requirements. Always observe good personal hygiene

measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Contaminated work clothing should not be allowed out of the workplace.

Section 9: Physical and chemical properties

Appearance

Solid. Physical state **Form** Powder. Colour Not available. Odour Not available. **Odour threshold** Not available. Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Flash point Not applicable. **Evaporation rate** Not applicable.

Flammability (solid, gas) This material will not burn.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) 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** Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable. **Decomposition temperature** Not available.

Other physical and chemical parameters **Explosive properties** Not explosive. Oxidising properties Not oxidising

Section 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

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.

Powerful oxidizers. Chlorine. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

Section 11: Toxicological information

Information on likely routes of exposure

Dust may irritate respiratory system. Chronic lung disease (silicosis) and/or lung cancer may Inhalation

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.

Dust may irritate the eyes. Eye contact

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Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction.

Dermatitis. Rash.

Information on toxicological effects

Not expected to be acutely toxic. **Acute toxicity**

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Dust may irritate respiratory system. Respiratory irritation

Respiratory or skin sensitisation

Not a respiratory sensitiser. Respiratory sensitisation

Skin sensitisation May cause an allergic skin reaction. Suspected of causing genetic defects. Germ cell mutagenicity

May cause cancer. Carcinogenicity

ACGIH Carcinogens

Nickel sulphide (CAS 16812-54-7) A1 Confirmed human carcinogen. Quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Nickel sulphide (CAS 16812-54-7) 1 Carcinogenic to humans. Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard**

Narcotic effects No data available.

Chronic effects Causes damage to organs through prolonged or repeated exposure.

Section 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available.

No data available for this product. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose of in accordance with local regulations. Empty containers or liners may retain some Residual waste

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Special precautions to be taken during disposal

Dispose in accordance with all applicable regulations.

Method of disposal that should None known.

not be used

Section 14: Transport information

ΙΔΤΔ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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Not applicable.

Section 15: Regulatory information

Applicable regulations HSNO - N.O.S. (Toxic [6.1, 6.7]) Group Standard 2017 [HSR002625]

New Zealand Inventory of Chemicals (NZIoC): Registration status

Quartz (CAS 14808-60-7) HSNO Approved

Section 16: Other information

References Not available.

Issued by

Company name Evident Scientific

Prepared by

Title Evident Scientific

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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 is the above the product of th

in the sheet was written based on the best knowledge and experience currently available.

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