# EWIDENT

# SAFETY DATA SHEET

#### 1. Identification

Product identifier OREAS 70B

Other means of identification

Product code Q0203078

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

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Evident Canada Incorporated

Address 3415 Rue Pierre-Ardouin, Québec, QC G1P 0B3,

Canada

+1 418-872-1155

Telephone number

CHEMTREC

**Emergency telephone** 

number

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

# 2. Hazard identification Not classified.

Physical hazards

Health hazards Sensitization, skin Category 1

Germ cell mutagenicity

Category 2

Carcinogenicity

Category 1A

Specific target organ toxicity following

Category 1

repeated exposure

Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

Label elements

**Environmental hazards** 



Signal word Danger

**Hazard statement** May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer.

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

Category 3

long lasting effects.

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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

Response IF ON SKIN: Wash with plenty of 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 None known.

Supplemental information None.

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#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
High grade massive nickel sulfide ore and barren ultramafic material		-	100

Constituents	CAS number	%	
Quartz	14808-60-7	-	
Nickel sulphide	16812-54-7	-	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** 

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

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

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

Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special

treatment needed

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

Symptoms may be delayed.

**General information** 

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.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods

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

General fire hazards The product is non-combustible.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

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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.

#### **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 drains, water courses or onto the ground.

#### 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).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH Threshold Limit Value Constituents	s Type	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.
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	0.2 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles
Canada. British Columbia OELs. ( Safety Regulation 296/97, as ame	• •	s for Chemical Substances, Oc	cupational Health and
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	0.05 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
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.
Canada. Ontario OELs. (Control o	of Exposure to Biological or C	hemical Agents)	
Constituents	Туре	Value	Form
Nickel sulphide (CAS 16812-54-7)	TWA	0.2 mg/m3	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Ministry	of Labor - Regulation respect	ng occupational health and sa	fety)
Constituents	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.

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Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) **Form** Constituents Value Type Nickel sulphide (CAS 15 minute 0.6 mg/m3 Inhalable fraction. 16812-54-7) 8 hour 0.2 ma/m3 Inhalable fraction. 8 hour 0.05 mg/m3 Respirable fraction. Quartz (CAS 14808-60-7)

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

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, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

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

Respiratory protection Wear respirator with dust filter.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

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.

## 9. Physical and chemical properties

**Appearance** 

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

range

Not applicable. Flash point **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.

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

(%)

Not available.

Not applicable. Vapour pressure Not applicable. Vapour density Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble in water.

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Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperatureNot applicable.Decomposition temperatureNot available.ViscosityNot available.

Other information

**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.

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

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

Skin sensitisationMay cause an allergic skin reaction.Germ cell mutagenicitySuspected of causing genetic defects.

Carcinogenicity May cause cancer.

#### **ACGIH Carcinogens**

Nickel sulphide (CAS 16812-54-7)

Quartz (CAS 14808-60-7)

A1 Confirmed human carcinogen.

A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

Nickel sulphide (CAS 16812-54-7)

Quartz (CAS 14808-60-7)

Confirmed human carcinogen.

Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Nickel sulphide (CAS 16812-54-7)

Quartz (CAS 14808-60-7)

Confirmed human carcinogen.

Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

Nickel sulphide (CAS 16812-54-7)

Quartz (CAS 14808-60-7)

Detected carcinogenic effect in humans.

Suspected carcinogenic effect in humans.

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.

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#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Nickel sulphide (CAS 16812-54-7) Known To Be Human Carcinogen. Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

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.

**Aspiration hazard** Not an aspiration hazard.

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

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

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

Bioaccumulative potential No data available. Mobility in soil No data available.

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.

#### 13. Disposal considerations

**Disposal instructions** 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 in accordance with all applicable regulations.

Local disposal regulations

Waste from residues / unused

products

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

# 14. Transport information

#### **TDG**

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable.

the IBC Code

# 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS Canadian regulations

contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Nickel sulphide (CAS 16812-54-7)

#### **Precursor Control Regulations**

Not regulated.

#### International regulations

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SDS Canada

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

**Kyoto Protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

# 16. Other information

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Evident Scientific cannot anticipate all conditions under which this information and its product, **Disclaimer** 

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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