# **E VIDENT**

## SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

**OREAS 70B** 

of the mixture

Registration number

**Synonyms** None Q0203078 **Product code** 12-March-2019 Issue date

Version number 03

22-November-2022 **Revision date** 

Supersedes date

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Used as a check standard for soil and geochem calibrations.

Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

Company name Evident Europe GmbH **Address** 

Caffamacherreihe 8-10,

20355 Hamburg Germany

Telephone number +49-402-3773-9112

Fax

1.4. Emergency telephone

number

**CHEMTREC** 

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

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification

## Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Germ cell mutagenicity H341 - Suspected of causing Category 2

genetic defects.

Carcinogenicity Category 1A H350 - May cause cancer.

Specific target organ toxicity - repeated H372 - Causes damage to organs Category 1 exposure through prolonged or repeated

exposure.

**Environmental hazards** 

Hazardous to the aquatic environment, Category 3 H412 - Harmful to aquatic life with

long lasting effects. long-term aquatic hazard

Causes damage to organs through prolonged or repeated exposure. May cause cancer. Exposure **Hazard summary** 

to powder or dusts may be irritating to eyes, nose and throat. May cause an allergic skin reaction. Suspected of causing genetic defects. Dangerous for the environment if discharged into

watercourses.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: High grade massive nickel sulfide ore and barren ultramafic material

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#### **Hazard pictograms**



Signal word Dange

**Hazard statements** 

May cause an allergic skin reaction. H317 Suspected of causing genetic defects. H341

May cause cancer. H350

Causes damage to organs through prolonged or repeated exposure. H372

Harmful to aquatic life with long lasting effects. H412

**Precautionary statements** 

Prevention

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202

Do not breathe dust. P260

Wash thoroughly after handling. P264 Avoid release to the environment. P273

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

IF exposed or concerned: Get medical advice/attention. P308 + P313

Storage Not available. Not available. Disposal

Supplemental label information None.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation 2.3. Other hazards

(EC) No 1907/2006, Annex XIII.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

## **General information**

Chemical name	%	CAS-No. / EC No. REACH Registration No.	Index No.	Notes
High grade massive nickel sulfide ore and barren ultramafic material	100	- -	-	

Classification: Skin Sens. 1;H317, Muta. 2;H341, Carc. 1A;H350, STOT RE 1;H372, Aquatic

Chronic 3;H412

## Constituents

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Quartz	-	14808-60-7 238-878-4	-	-	#
Nickel sulphide	-	16812-54-7 240-841-2	-	028-006-00-9	

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

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

The hazard evaluation is based on the content of nickel sulphide. The full text for all H-statements Composition comments

is displayed in section 16.

## **SECTION 4: First aid measures**

**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.

4.1. Description of first aid measures

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

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

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.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms

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

Dermatitis. Rash. Prolonged exposure may cause chronic effects. and effects, both acute and

delayed

Eye contact

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4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

General fire hazards The product is non-combustible.

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

5.2. Special hazards arising

None known.

from the substance or mixture

None known.

5.3. Advice for firefighters

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

Special fire fighting

procedures

Use water spray to cool unopened containers.

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

Use fire-extinguishing media appropriate for surrounding materials.

## SECTION 6: Accidental release measures

#### 6.1. 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 emergency responders

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

6.2. 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.

6.3. Methods and material 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

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## **SECTION 7: Handling and storage**

7.1. 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 eves, 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.

7.2. 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).

Used as a check standard for soil and geochem calibrations. 7.3. Specific end use(s)

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Constituents	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.

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EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A Form Constituents **Type** Quartz (CAS 14808-60-7) **TWA** 0.1 mg/m3 Respirable fraction and

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

Recommended monitoring

procedures

Derived no effect levels (DNELs)

Follow standard monitoring procedures.

Not available.

Not available.

Predicted no effect concentrations (PNECs)

8.2. Exposure controls 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

dust

Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

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

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

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

Respiratory protection Wear respirator with dust filter. Use respiratory equipment with particle filter, type P2.

exposures below the recommended exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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.

**Environmental exposure** 

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. 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.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

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

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

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

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Vapour pressure Not applicable.

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Not applicable. Vapour density Relative density Not available. Insoluble in water. Solubility(ies) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable. Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not explosive. Oxidising properties Not oxidising.

9.2. Other information No relevant additional information available.

## **SECTION 10: Stability and reactivity**

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Powerful oxidizers. Chlorine.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

## **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

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.

Eye contact Dust may irritate the eyes.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

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

Dermatitis, Rash.

## 11.1. Information on toxicological effects

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

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible. Respiratory sensitisation

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

Carcinogenicity May cause cancer.

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.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Causes damage to organs through prolonged or repeated exposure.

repeated exposure

Due to partial or complete lack of data the classification is not possible. Aspiration hazard

Mixture versus substance

information

No information available.

Not available. Other information

## **SECTION 12: Ecological information**

Harmful to aquatic life with long lasting effects. 12.1. Toxicity

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12.2. Persistence and

degradability

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

12.3. Bioaccumulative potential

No data available.

**Partition coefficient** 

n-octanol/water (log Kow)

Not available

**Bioconcentration factor (BCF)** Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

assessment

(EC) No 1907/2006, Annex XIII.

12.6. 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**

#### 13.1. Waste treatment methods

Residual waste 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).

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

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

disposal.

The Waste code should be assigned in discussion between the user, the producer and the waste EU waste code

disposal company.

Disposal methods/information 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. Special precautions

## **SECTION 14: Transport information**

#### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods. Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

#### **SECTION 15: Regulatory information**

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

#### **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

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## Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Nickel sulphide (CAS 16812-54-7)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Nickel sulphide (CAS 16812-54-7)

Quartz (CAS 14808-60-7)

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Nickel sulphide (CAS 16812-54-7)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations According to Directive 92/85/EEC as amended, pregnant women should not work with the product,

if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at

work, in accordance with Directive 2004/37/EC, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

List of abbreviations

PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under

Sections 2 to 15

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Training information** 

Follow training instructions when handling this material.

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

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

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