

# SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	OREAS 70B
Registration number	-
Synonyms	None.
Product code	Q0203078
Issue date	12-March-2019
Version number	03
Revision date	22-November-2022
Supersedes date	-
1.2. Relevant identified uses of t	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	e safety data sheet
Company name	EVIDENT Europe GmbH
Address	Caffamacherreihe 8-10
	20355 Hamburg
	Germany
Telephone number	+49 40-23773-0
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. Hozarda idam	lification

### **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 applies.

#### 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		Category 2	H341 - Suspected of causing genetic defects.
Carcinogenicity		Category 1A	H350 - May cause cancer.
Specific target organ toxic exposure	ity - repeated	Category 1	H372 - Causes damage to organs through prolonged or repeated exposure.
Environmental hazards			
Hazardous to the aquatic long-term aquatic hazard	environment,	Category 3	H412 - Harmful to aquatic life with long lasting effects.
Hazard summary		e to organs through prolonged or repeated e sts may be irritating to eyes, nose and throa	

#### 2.2. Label elements

**Contains:** 

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

watercourses.

High grade massive nickel sulfide ore and barren ultramafic material

Suspected of causing genetic defects. Dangerous for the environment if discharged into

Hazard pictograms



Signal word	Danger
Hazard statements	
H317 H341	May cause an allergic skin reaction. Suspected of causing genetic defects.
H350 H372 H412	May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	
P201 P202 P260 P264 P273 P280	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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P308 + P313	IF exposed or concerned: Get medical advice/attention.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

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

#### 3.2. Mixtures

### **General information**

Chemical name		%	CAS-No. / EC No. R	EACH Registration I	No. Index No.	Notes
High grade massive nid and barren ultramafic r		100	-	-	-	
Classification:	Skin Sens. 1; Chronic 3;H4		ıta. 2;H341, Carc. 1A;H3	50, STOT RE 1;H372	2, Aquatic	

#### Constituents

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	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.

**Composition comments** The hazard evaluation is based on the content of nickel sulphide. The full text for all H-statements 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 meas	sures
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.
4.2. Most important symptoms and effects, both acute and delayed	Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

# **SECTION 5: Firefighting measures**

General fire hazards	The product is non-combustible.
5.1. Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
5.2. Special hazards arising 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.

### **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 SDS.
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 containers.
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<br/>handlingObtain special instructions before use. Do not handle until all safety precautions have been read<br/>and understood. Minimise dust generation and accumulation. Provide appropriate exhaust<br/>ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes, skin, and<br/>clothing. When using, do not eat, drink or smoke. Should be handled in closed systems, if<br/>possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.<br/>Avoid release to the environment. Observe good industrial hygiene practices.7.2. Conditions for safe<br/>storage, including any<br/>incompatibilitiesStore in tightly closed container. Store in a well-ventilated place. Store away from<br/>incompatible materials (see section 10 of the SDS).7.3. Specific end use(s)Used as a check standard for soil and geochem calibrations.

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

### 8.1. Control parameters

Occupational exposure limits				
Ireland. Occupational Exposure Lin Constituents	nits Type	Value	Form	
Nickel sulphide (CAS 16812-54-7)	TWA	0.5 mg/m3		

Constituents	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
EU. OELs, Directive 2004/3 Constituents	7/EC on carcinogen and mutagens fro Type	m Annex III, Part A Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction and dust
Biological limit values	No biological exposure limits noted for	r the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedure	S.	
Derived no effect levels (DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Good general ventilation should be us applicable, use process enclosures, lo maintain airborne levels below recomme established, maintain airborne levels t any operation which may generate du exposures below the recommended e	ocal exhaust ventilation, or oth mended exposure limits. If exp o an acceptable level. If mater sts, use appropriate local exha	er engineering controls to oosure limits have not been rial is ground, cut, or used in
ndividual protection measures	, such as personal protective equipme	ent	
General information	Use personal protective equipment as according to the CEN standards and i equipment.		
Eye/face protection	Use tight fitting goggles if dust is gene	rated.	
Skin protection			
- Hand protection	Wear appropriate chemical resistant g	loves.	
- Other	Wear appropriate chemical resistant c	lothing. Use of an impervious	apron is recommended.
Respiratory protection	Wear respirator with dust filter. Use re	spiratory equipment with parti	cle filter, type P2.
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
Hygiene measures	Observe any medical surveillance req measures, such as washing after han smoking. Routinely wash work clothin Contaminated work clothing should no	dling the material and before e ig and protective equipment to	ating, drinking, and/or remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supe general ventilation should be used. Ve applicable, use process enclosures, lo maintain airborne levels below recom established, maintain airborne levels t	entilation rates should be matc ocal exhaust ventilation, or oth mended exposure limits. If exp	hed to conditions. If er engineering controls to

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

# 9.1. Information on basic physical and chemical properties

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.

## Upper/lower flammability or explosive limits

oppennower naminability of exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.
SECTION 10: Stability and	1 reactivity

# **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.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

-	
General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of ex	<b>kposure</b>
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	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.
11.1. Information on toxicologica	Il effects
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	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	Due to partial or complete lack of data the classification is not possible.
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 Quartz (CAS 14808-60-7)	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
OREAS 70B	SDS I

Mixture versus substance information	No information available.
Other information	Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity	Harmful to aquatic life with long lasting effects.
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 assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste 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.
Special precautions	Dispose in accordance with all applicable regulations.

# **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.

ΙΑΤΑ

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

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.14.7. Transport in bulkNot applicable.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 Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

• • •	2 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed. Regulation (EU) No. 649/201	2 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.	
Regulation (EC) No. 166/200	6 Annex II Pollutant Release and Transfer Registry, as amended
• • •	312-54-7) 006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.	
Authorisations	
	006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.	
Restrictions on use	
	006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Nickel sulphide (CAS 168 Directive 2004/37/EC: on the work, as amended.	e protection of workers from the risks related to exposure to carcinogens and mutagens at
Nickel sulphide (CAS 168 Quartz (CAS 14808-60-7	
Other EU regulations	
Directive 2012/18/EU on maj	jor accident hazards involving dangerous substances, as amended
Nickel sulphide (CAS 168	312-54-7)
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	No Chemical Safety Assessment has been carried out.
assessment	
SECTION 16: Other inform	nation
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 sheet was written based on the best knowledge and experience currently available.