

SAFETY DATA SHEET

Product

QUARTZ

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Version : 1

Date : 29/08/2005

1 IDENTIFICATION OF THE CHEMICAL PRODUCT AND OF THE COMPANY

PRODUCT NAME : QUARTZ
Name : KALTUN MINING COMPANY
Address : Aydin - Mugla Kara Yolu Kenari Cine
AYDIN
TURKEY
Telephone number : +90 256 729 16 00
Telefax number : +90 256 729 16 15
EMERGENCY TELEPHONE NUMBER : ORFILA (France) : +33 3 45 42 59 59
Recommended use : Ceramic, Glass, Porcelain, Paint and Coating Industry

2 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE :
Common chemical name : Quartz
Chemical formula : SiO₂
CAS : 14808-60-7
EINECS : 238-878-4

3 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : Crystalline silica is listed by IARC (International Agency for Research on Cancer) as "Carcinogenic to humans (Group 1)"
Prolonged exposure to dust containing respirable quartz may cause silicosis or pneumoconiosis
Environmental effects : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with
Physical and chemical hazards :
- Fire or explosion : No particular fire or explosion hazard
Classification of the product : According to EC criteria, this product is not classified as a "hazardous substance"

4 FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air
In the event of coughing and slight breathlessness:
Call a doctor
Skin contact : Remove all contaminated clothing and footwear
Rinse with plenty of water
In case of redness or irritation, call a doctor

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Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)
If irritation persists, consult an eye specialist

Ingestion : Consult a doctor if necessary

5 FIRE FIGHTING MEASURES

Suitable extinguishing media : All extinguishing agents can be used

Specific hazards : Not combustible

Protection of fire-fighters : Self-contained breathing apparatus
Complete protective clothing

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes
Do not breathe dust

Environmental precautions : Do not allow product to spread into the environment

Methods for cleaning up :

- Recovery : Sweep up or vacuum up the product
Collect the product and place it in a spare container suitably labelled
- Cleaning/decontamination : Wash contaminated area with large amounts of water
- Disposal : Dispose of contaminated materials in accordance with current regulations

7 HANDLING AND STORAGE

HANDLING

Technical measures : Ventilation
Dust extraction (suction)

Precautions : Avoid the dispersion of dust
Smoking is forbidden

Safe handling advice : Maintain a suitable ventilation system. Do not handle in a confined space

STORAGE

Technical measures : Does not require any specific or particular technical measures

Storage conditions :

- Recommended : Store :
 - in a cool, dry area.
 - the container tightly closed

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ensure good ventilation of the work station
Extraction to remove dust at its source

Occupational exposure limits :

- France : VME : 0.1 mg/m³
- Germany : MAK limit : 0.15 mg/m³.

Personal protective equipment :

- Respiratory protection : Suitable respiratory protective device with filter (P2 or P3)

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- Hand protection : Protective gloves
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374
Breakthrough time : refer to the recommendations of the supplier
- Eye protection : Safety spectacles
- Hygiene measures : Do not drink, eat or smoke in the workplace
Always wash your hands after handling the product

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Crystals
Colour : white
Odour : odourless
pH : Not applicable
- Specific temperatures :
- Melting : 1713 °C
- Boiling : > 2200 °C
- Flammability characteristics :
- Flash point : Not applicable (non-flammable solid)
- Apparent specific gravity : ~ 1400 kg/m³
Specific gravity : 2650 kg/m³ (20 °C)
Solubility :
- in water : Insoluble

10 STABILITY AND REACTIVITY

- Stability : Stable at ambient temperature and under normal conditions of use
- Hazardous reactions :
- Materials to avoid :
- strong bases
- strong oxidizing agents
- fluorinated compounds

11 TOXICOLOGICAL INFORMATION

- Acute toxicity : LD 50 oral (Rat) : 500 mg/kg
(published data)
- Acute symptoms :
On inhalation :
Irritation to throat and respiratory system
Coughing, difficulty in breathing, suffocation
On ingestion :
Nausea
Diarrhea
- Local effects :
Repeated or prolonged contact may cause slight irritation to the skin
Dust may cause slight irritation to the ocular mucous membranes by mechanical effect

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Specific effects :

- Carcinogenicity :

Crystalline silica is listed by IARC (International Agency for Research on Cancer) as "Carcinogenic to humans (Group 1)"

Prolonged exposure to dust containing respirable quartz may cause silicosis or pneumoconiosis

12 ECOLOGICAL INFORMATION

Product as is :

No data available

Avoid discharge of the product as is into the environment

DEGRADABILITY:

Biodegradability :

No easy biodegradable

ECOTOXICITY :

Effects on the aquatic environment :

The product does not have any known adverse effects on the environment.

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :

Destruction/Disposal :

Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING :

Destruction/disposal :

Recycle following cleaning or dispose of at an authorised site

NOTE :

The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

:

RID/ADR/IMDG/IATA :

Not restricted

NOTE :

The above regulatory prescriptions are those valid on the date of publication of this sheet.

Given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

15 REGULATORY INFORMATION

EC LABELLING :

- Symbols and indications of danger :

No symbol

- R phrases :

No R phrase

- S phrases :

No S phrase

FURTHER REGULATIONS :

National prescriptions :

France :

Maladies professionnelles (tableau(x) n° 25, 25 bis) : concerné

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NOTE :

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the SDS
The cited basic community texts are being updated and transcribed in national law
Refer to all applicable international, national and local regulations or provisions
The user's attention is drawn to the possible existence of additional provisions which complete these regulations

16 OTHER INFORMATION

Restrictions on use :

This product must not be used for other applications than mentioned in §1

Bibliographic references :

ECB (European Chemical Bureau)
IUCLID (International Uniform Chemical information Database)
HSDB (Hazardous Substances Data Bank) (National Library of Medicine)

Safety data sheet established by :

TELEGIS SARL, 6 rue des Boucheries F-60400 NOYON

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The

attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing

and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are

only intended to help the user to fulfil his obligations regarding the use of hazardous products.

This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

End of document.

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