



Karakaya Mah. Karakaya Sk. No: 187 Söke / Aydın Tel: +90.256 711 5420

Mail: tesis@kormad.com

MATERIAL SAFETY DATA SHEET QUARTZ (SiO₂) OPTICAL

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 PRODUCT IDENTIFIERS:

Product Name: Quartz (SiO₂) Synonyms, Trade Names: Granulated Quartz

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified Uses: Glass, ceramic, composite surfaces, abrasive, water filters.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET Company: Kormad Madnecilik. İnş. Haf. Taah. San. Tic. Ltd. Şti.

1.4. EMERGENCY TELEPHONE NUMBER: +90256 7115420

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE No Hazardous Product as specified in Directive 67/548/EEC.

2.2 LABEL ELEMENTS Precautionary Statements: P262 Do not breathe dust/fume/gas/mist/vapors/spray.

2.3 OTHER HAZARDS None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES Mineral Name QUARTZ CAS number : 14808-60-7 EINECS No 238-878-4 EINECS name QUARTZ Content %98.5 Classification Xn; R48/20 (X)

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES GENERAL: Consult a doctor for specific advice. EYES: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention. SKIN: Wash thoroughly with soap and water. INHALATION: Remove to fresh air. Obtain medical attention. INGESTION: Wash out mouth thoroughly with water. In severe cases obtain Medical Attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED Refer to Section 2.2 and to section 11.



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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED No Data.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA This product does not burn.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE None Known

5.3 ADVICE FOR FIREFIGHTERS Use breathing apparatus if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES None

6.2 ENVIRONMENTAL PRECAUTIONS Prevent further leakage or spillage.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP Dispose of as normal waste.

6.4 REFERENCE TO OTHER SECTIONS None

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

7.2 Protect against physical damage and avoid generating dust.

7.3 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES No special precautions needed.

7.4 SPECIFIC END USES Optical Material for Manufacture of Optical Components.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS OCCUPATIONAL EXPOSURE LIMITS (OEL) – Total inhalable silica dust: Long term 0.1 mg/m³ **EXPOSURE CONTROLS:** Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Avoid breathing dust when generated. Wash hands immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE : Clear geometric shapes, no odor. **FLASH POINT:** Not Applicable **C FLAMMABILITY:** Not Applicable **°BOILING POINT** (760mm Hg) 2230 C **EXPLOSIVE PROPERTIES:** Not Applicable **°MELTING POINT:** 1710 C **°SPECIFIC**



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GRAVITY: 2.649 g/mL VAPOUR PRESSURE: Negligible at 25 SOLUBILITY IN WATER: Practically soluble.
pH IN AQUEOUS SOLUTION: Not determined

9.2 OTHER SAFETY INFORMATION None

10. STABILITY AND REACTIVITY

10.1 REACTIVITY Reacts with some mineral acids.

10.2 CHEMICAL STABILITY Stable under normal conditions of storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS None known

10.4 CONDITIONS TO AVOID Strong hot alkali solutions and Hydrofluoric, Fluosilicic and Phosphoric Acids

10.5. INCOMPATIBLE MATERIALS Strong Mineral Acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS Normally none

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS Particular care should be exercised when machining and creating dust or particles. TOXIC DOSE - LD50 3160 mg/kg (oral, rat)

CARCINOGENICITY: No evidence of carcinogenic properties. MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY No Data

12.2 PERSISTENCE AND DEGRADABILITY No Data

12.3 BIOACCUMULATIVE POTENTIAL No Data

12.4 MOBILITY IN SOIL No Data

12.5 RESULTS OF PBT AND vPvB ASSESSMENT Not required or conducted

12.6 OTHER ADVERSE AFFECTS No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

13. DISPOSAL CONSIDERATIONS



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13.1 WASTE TREATMENT METHODS Should be disposed of carefully in designated glass disposal bins.

14. TRANSPORT INFORMATION

14.1 UN NUMBER: None

14.2 UN PROPER SHIPPING NAME: Not subject to transportation regulations.

14.3. TRANSPORT HAZARD CLASS: None **14.4. PACKING GROUP:** None

14.5 ENVIRONMENTAL HAZARDS: None

14.6. SPECIAL PRECAUTIONS FOR USER: None

14.7 TRANSPORT IN BULK MARPOL / IBC: No Data

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE TSCA: Not determined

16. OTHER INFORMATION REVISION DATE:

31th December 2017 Kormad Madencilik. The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.