

Material Safety Data Sheet

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1. Product and Company Identification

Trade Name :	Quartz monitor crystal
Manufacturer :	SUNDA OPTICAL MATERIAL CO., LTD.
Tel :	+886-6-2892278
Fax :	+886-6-2892267
Add. :	No. 2-2, Ln. 11, Sec. 3, Dongmen Rd., East Dist., Tainan City 701, Taiwan (R.O.C.)

2. Hazard Identification

Hazard statements: N/A Skin Corrosion/irritation: Category 2 Serious Eye damage/ Eye irritation: Category 2 Specific target organ toxicity(single exposure): Category 3 Target Organs- N/A
Signal : 

3. Composition/Information on Ingredients

表 2 EDS 测试结果

wt%

Spectrum	O	Si	Cr	Au	Total
1	8.13	14.93	2.85	74.08	100.00

4. First-aid Measures

Inhalation : Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.
Skin Contact : Wash off immediately with plenty of water for at least 15 minutes. Get medical

Material Safety Data Sheet

attention immediately if symptoms occur.

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.

Ingestion : Do not induce vomiting. Obtain medical attention.

Most important symptoms and effects : Causes serious eye irritation and skin irritation.

5. Fire-fighting Measures

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protecting equipment : Water self contained breathing apparatus for fire fighting if necessary.

Precautions for firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions : N/A

Environmental Precautions : Should not be released into the environment.

Methods for Containment and Clean Up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid breathing dust. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: N/A

Protection of hands: N/A

Eye protection: Use safety glasses.

Body protection: N/A

Material Safety Data Sheet

9. Physical and Chemical Properties

Physical state : Gold plating quartz crystal	Density : N/A
Appearance : Gold	Odor : Odorless
Melting point/range : 1650°C	Boiling point/range : 2500 °C
Solubility : Insoluble in water	Flash point : N/A
Explosive limits : N/A	Test method : closed cup

10. Stability and Reactivity

Reactive hazard: N/A
Stability: Stable under normal conditions.
Conditions to avoid: N/A

11. Toxicological Information

Acute toxicity
Irritation: Irritating to eyes, respiratory system and skin.

12. Ecological Information

Eco-toxicity effects : N/A

13. Disposal Considerations

Waste disposal methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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14. Transport Information

Transport Information : Not regulated

15. Regulations

Applicable regulations
1.Hazard Communication Standard: Labels and Pictograms
2. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
3. Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations
4. Road traffic safety

Material Safety Data Sheet

16. Other Information

References	1. GHS Web.: http://www.ghs.url.tw/train/train6th.pdf 2. HSDB DBMS 3. OHS MSDS DBMS 4. ChemWatch DBMS
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