

TAN06IG: 6 MHz Gold Crystals

l Identification

GHS Product Identifier

TAN06IG

Other means of identification

6 MHz Quartz Monitor Crystals with Gold electrode and Chromium Adhesion Layer. Double anchor electrode pattern.

Recommended use of the chemical and restriction on use

Quartz Monitor Crystals are a solid, non-volatile, component used for measuring thin film evaporation in optical coating applications.

Supplier's details

Phillip Technologies, LLC 2003 Perimeter Road Suite E Greenville, South Carolina 29605-5276 USA

Emergency phone number

+1-864-244-1560

2 Hazard(s) identification

Classification of the substance or mixture

Quartz Monitor Crystals are not hazardous under OSHA Standard 29 CFR 1910.1200

GHS label elements

May be harmful if swallowed due to choking hazard

3 Composition/information on ingredients

Description	CAS Number EINEC Number	V /a	Note
Gold metal (Au)	7440-57-5	20	Gold is natural element that is inert, non-toxic, and non-volatile.
Chromium metal (Cr)	7440-47-3	10	Vacuum-deposited chromium transforms into inert and non-volatile Chromic Oxide, which is what these crystals are coated with
Silicon Dioxide (Quartz)	14808-60-7	70	Quartz is pervasive in nature. Non-toxic, non-volatile.

4 First-aid measures

Description of necessary first-aid measures

Call a doctor in the event of oral ingestion. Possible choking hazard may exist.

Most important symptoms/effects, acute and delayed

choking hazard due to oral ingestion. Possible upset stomach from ingestion.

Indication of immediate medical attention and special treatment needed, if necessary

Choking, difficulty breathing, or illness.

	energy annearcy streaming, or						
5	Fire-fighting measures						
	Suitable extinguishing media						
	Not Applicable						
	Specific hazards arising from	the chemical					
	Not Applicable						
	Special protective actions for f	fire-fighters					
	Not Applicable						
6	Accidental release measures	8					
	Personal precautions, protective equipment and emergency procedures						
Not Applicable Environmental precautions							
							Not Applicable
	Methods and materials for con						
	Not Applicable. Product is solid,	non-toxic, non-volatile, and no	on-flammable				
7	Handling and storage						
Precautions for safe handling							
	None.						
Conditions for safe storage, including any incompatibilities							
	None						
8	Exposure controls/personal protection						
	Control parameters						
	No PPE required for handling.						
	Appropriate engineering controls						
	No controlled procedures required for safe handling.						
	Individual protection measures						
	No PPE required for handling.						
9	Physical and chemical prop	erties					
	Physical and chemical properties						
	Physical state	Solid	Odor	No Odor			
	Appearance Color	Gold and Metallic Grey	Odor Threshold	No information available			

Property pН **Melting/Freezing Point** boiling Point/Boiling range **Flash Point Evaporation Rate** Flammability (solid / gas) **Flammability Limit in Air Upper Flammability Limit Lower Flammability Limit** Vapor Pressure Vapor Density **Specific Gravity** Water Solubility Solubility in other solvents Partition coefficient: noctanol/wate Autoignition temperature **Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties** no data available **Oxidizing properties** no data available

Values no data available 1670°C no data available 60.08 Non-soluble no data available no data available

Remarks Method

None Known None Known

None Known None Known None Known None Known None Known None Known

10 **Stability and reactivity**

Reactivity

None under normal processing

Chemical stability

Stable under all storage and usage conditions

Possibility of hazardous reactions

None under normal processing

Conditions to avoid

None

Incompatible materials

None

Hazardous decomposition products

None

Toxicological information 11

Toxicological (health) effects

None.

Information on the likely routes of exposure

None

Symptoms related to the physical, chemical and toxicological characteristics

Potential Choking Hazard

Delayed and immediate effects and also chronic effects from short and long term exposure

None

Numerical measures of toxicity (such as acute toxicity estimates)

Toxicological Data on Ingredients:

<u>Ingredient</u>	<u>LD50</u>	<u>LC50</u>
Quartz	Not available	Not available
Gold	Not available	Not available
Chromium	Not available	Not available

Interactive effects

None

Where specific chemical data are not available

None

Mixtures

None

Mixture versus ingredient information

None

Other information

None

12 Ecological information

Toxicity

None

Persistence and degradability

None

Bioaccumulative potential

None

Mobility in soil

None

Other adverse effects

None

13 Disposal considerations

Disposal methods

Bury in a secured landfill in accordance with all local, state and federal environmental regulations. Empty containers may be incinerated or discarded as general trash.

14 Transport information

UN Number

Not available

UN Proper Shipping Name

Not available

Transport hazard class(es)

Not available

Environmental hazards

Not available

Special precautions for user

Not available

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

Not available

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

CLEAN AIR ACT SECTION 611: Material neither contains nor is it manufactured with ozone depleting substances (ODS).

FEDERAL WATER POLLUTION CONTROL ACT (40 CFR 401.15): Material contains no intentionally added or detectable (contaminant) levels of EPA priority toxic pollutants.

CERCLA REPORTABLE QUANTITY: None

OSHA: Not hazardous under 29 CFR 1910.1200

RCRA: Not a hazardous material or a hazardous waste by listing or characteristic.

Extremely Hazardous Substances: None

Section 311/312, Hazardous Categories: Non-hazardous

Contains no VOCs.

16 Other information