

# **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	<b>V</b> /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