

# TAN05RCSA: 5 MHz RC Alloy Crystals

## Identification

#### **GHS Product Identifier**

TAN05RCSA

#### Other means of identification

5 MHz Quartz Monitor Crystals with Alloy electrode. Ulvac 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

## 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

## Composition/information on ingredients

Description	CAS Number EINECS Number	%		Note
Aluminum Alloy	7429-90-5	10	- 3	0 Non-toxic aluminum alloy
Silicon Dioxide (Quartz)	14808-60-7	70		Quartz is pervasive in nature. Non-toxic, non-volatile.

#### 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.

## 5 Fire-fighting measures

## Suitable extinguishing media

Not Applicable

## Specific hazards arising from the chemical

Not Applicable

### Special protective actions for fire-fighters

Not Applicable

#### 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Not Applicable

### **Environmental precautions**

Not Applicable

## Methods and materials for containment and cleaning up

Not Applicable. Product is solid, non-toxic, non-volatile, and non-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 properties

#### Physical and chemical properties

Physical state Solid Odor No Odor

Appearance Silver and Metallic Grey Odor Threshold No information available

Color

PropertyValuesRemarks MethodpHno data availableNone Known

Date of Preparation: Draft Revision: 1

Melting/Freezing Point	1670°C	None Known
boiling Point/Boiling range	no data available	None Known
Flash Point	no data available	None Known
<b>Evaporation Rate</b>	no data available	None Known
Flammability (solid / gas)	no data available	None Known
Flammability Limit in Air	no data available	None Known
<b>Upper Flammability Limit</b>	no data available	None Known
Lower Flammability Limit	no data available	None Known
Vapor Pressure	no data available	None Known
Vapor Density	no data available	None Known
Specific Gravity	60.08	None Known
Water Solubility	Non-soluble	None Known
Solubility in other solvents	no data available	None Known
Partition coefficient: n-	no data available	None Known
octanol/wate		
Autoignition temperature	no data available	None Known
Decomposition temperature	no data available	None Known
Kinematic viscosity	no data available	None Known
Dynamic viscosity	no data available	None Known
Explosive properties	no data available	None Known
Oxidizing properties	no data available	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

# 11 Toxicological information

# 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:** 

Ingredient LD50 LC50

QuartzNot availableNot availableGoldNot availableNot availableChromiumNot availableNot 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