Regulation EC Nr. 1907/2006 Art.31

**Product name:** Gold target, 99.99% pure in various forms **Document Nr.:** SDS00170AU5704

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## Section 1: Identification of the substance or mixture and the company

### 1.1. Product Identifier

Gold (Au) target, 99.99% pure in various manufactured forms. EC #: 231-165-9 CAS #: 7440-57-5 The substance is not subject to registration according to REACH

#### 1.2 Relevant applications of the material and uses advised against

Target material for vacuum deposition (sputtering and evaporation)

#### 1.3. Company details

Rave Scientific 100 Franklin Square Dr. Suite 101 Somerset, NJ 08873 Telephone: 1-732-898-3828 Email: info@ravescientific.com Web: www.ravescientific.com

#### **1.4 Emergency telephone number**

Rave Scientific: 1-732-898-3828

## Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008 (CLP)

This substance does not meet the criteria for classification in accordance with regulation Nr. 1272/2008/EC

### 2.2 Labelling elements in accordance to Regulation EC. Nr 1272/2008

Not required

## 2.3 Other hazards

According to the results of its assessment, this substance is not a PBT or vPvB.

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Section 3: Composition	/ information on compo	nents			
3.1. Substances					
Gold (Au) target, 99.9	9% pure in various forms.	EC #: 231-165-9	CAS #: 74	440-57-5	
3.2 Mixtures					
Not applicable					
Section 4: First aid mea					
4.1. Description of first aid	measures				
Contact with eyes: Contact with skin: Inhalation: Ingestion:	No special measures necessar No special measures necessar No special measures necessar No special measures necessar	y y			
4.2. Important symptoms a	and effects, either immediate	or delayed			
Symptoms and effects	s are not known to date				
4.3. Indication of any imme	ediate medical attention and	special treatme	nt		
None					
Section 5: Firefighting N	Measures				
5.1. Extinguishing media					
Water, foam, dry extir	nguishing powder, ABC-powder				

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Do not use water jet

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### 5.2 Special hazards arising from the substance or mixture

Non-combustible

#### **5.3 Advice to firefighters**

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus

# Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary

#### 6.2 Environmental precautions

Not required

### 6.3 Methods and material for containment and clean up

Pick up mechanically

#### 6.4 Reference to other sections

For further information see section 7, 8 and 13.

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

No special measures are necessary

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## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place

#### 7.3 Specific end uses(s)

No information available.

# Section 8: Exposure control and personal protection

#### 8.1. Control parameters

### **Occupational exposure limits (OEL)**

This information is not available

#### 8.2 Exposure controls

Control procedures:	Wash hands before breaks and at the end of the work	
	Maintain appropriate working environment	
Personal protection:	Protective work clothing	
Inhalation:	Usually no personal reparative protection necessary	
Hands and skin:	Suitable gloves	
Eyes:	Wear safety goggles with side protection or full-face protection	

# Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance/physical state:	Solid in various forms
Colour:	Yellow metallic
Odour:	None
рН	Not applicable
Melting point/range:	1065°C
Boiling point/range:	2800°C
Flash point:	Not determined

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Evaporation rate:	Not available	(Contd. of page 4)
Explosion limits: upper limit:	Not determined	
lower limit:	Not determined	
Vapour pressure:	Not applicable	
Relative density:	19.3 g/cm3 @ 20°C	
Solubility in water:	Practically insoluble	
Auto-ignition:	Not determined	
Viscosity:	Not applicable	

### 9.2 Other information

None

# Section 10: Stability and reactivity

#### 10.1. Reactivity

This material is not reactive under normal ambient conditions

#### **10.2 Chemical stability**

Stable under recommended storage conditions

#### 10.3 Possibility of hazardous reactions

None known

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided

#### **10.5 Incompatible materials**

There is no additional information available

## **10.6 Hazardous decomposition products**

Non-combustible

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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) Nr. 1272/2008

Acutely toxic:Not classifiedInhalation:Not classifiedSkin contact:Not classifiedEye contact:Not classifiedSensitisation:Not classifiedGerm cell mutagenicity:Not classifiedCarcinogenicity:Not classifiedReproductive toxicity:Not classified

### Symptoms related to the physical, chemical and toxicological characteristics

If swallowed:	No data available
If in eyes:	No data available
If inhaled:	No data available
If on skin:	No data available
Other information:	No data available

## Section 12: Ecological information

### 12.1. Aquatic toxicity

Shall not be classified as hazardous to the aquatic environment

#### 12.2 Persistence and degradability

No information available

## 12.3 Bio-accumulative potential

No information available

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#### 12.4 Mobility in soil

No information available

## 12.5 Results of PBT and vPvB assessment

Not applicable

#### 12.6 Endocrine disrupting properties

Not listed

### 12.7 Other adverse effects

No information available

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Product:	This material and its container must be disposed of in a safe way.	
	Do not discharge into drains or the environment, dispose to an authorised waste	
	collection point.	
National regulations:	Disposal should be in accordance with local, state or national legislation.	

## Section 14: Transport information

#### 14.1. UN number

UN-number:

N/A

## 14.2 UN proper shipping name

Proper shipping name: N/A

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14.3 Transport hazard class(es)			
Class: ADR/RID-Classification code:	N/A N/A		
14.4 Packing group			
Packing:	N/A		
14.5 Incompatible materials			
ADR/RID- Environmentally hazardous: IMDG-Marine pollutant: IATA/ICAO-Environmentally hazardous:	N/A		
14.6 Special precautions for user			
ADR/RID-Tunnel code: IMDG-Ems: IATA/ICAO-PAX: IATA/ICAO-CAO:	N/A N/A N/A N/A		
14.7 Transport in bulk according to Annex	II of MARPOL73	9/78 and the IBC code	
Not applicable			

# Section 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions according to REACH, Annex XVII: not listed List of substances subject to authorization (REACH, Annex XIV)/SVHC – candidate list: not listed

#### 15.2 Chemical safety assessment

No information available

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## Section 16: Other information

#### **RoHS Directive Compliant**

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

#### WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

#### Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bio-accumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
vPvB	very Persistent and very Bio-accumulative
WEEE	Waste Electrical and Electronic Equipment

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

End of document.



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