Regulation EC Nr. 1907/2006 Art.31

**Product name:** EM-Tec single sided conductive copper SEM tape

**Date:** October 5th 2022

**Document Nr.: SDS00115000103** 

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

#### 1.1. Product Identifier

EM-Tec single sided conductive copper SEM tape The substances do not require registration according to regulation (EC) N. 1907/2006 (REACH).

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

Conductive copper SEM tape for sample holding in microscopy and surface analysis applications

## 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

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

## 2.2 Labeling elements

## Labelling accordance to Regulation EC. Nr 1272/2008

Not needed

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#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

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

# Section 3: Composition / information on components

#### 3.1. Substances

Single sided conductive copper foil tape with conductive pressure sensitive adhesive. Not considered hazardous under normal usage and room temperature. Can release irritating and or toxic vapours at elevated temperatures > 120°C.

#### 3.2 Mixtures

85-95 WT% copper foil CAS #: 7440-50-8 EC #: 231-159-6 <10 WT% acrylate adhesive CAS #: not known EC #: not known

## Section 4: First aid measures

## 4.1. Description of first aid measures

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact

lenses. Continue rinsing.

Contact with skin: No special measures necessary.

Inhalation: No special measures necessary. There is no major dust generation possible.

Ingestion: Rinse mouth. Seek medical assistance if you feel unwell

## 4.2. Important symptoms and effects, either immediate or delayed

No relevant information available

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## 4.3. Indication of any immediate medical attention and special treatment

General advice: If you feel unwell, seek medical advice; show product label if possible

If symptoms persist, always call a doctor

## Section 5: Firefighting Measures

## 5.1. Extinguishing media

Water, foam, dry extinguishing powder, ABC powder. Do not use water jet.

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

Toxic acrylic fumes, metal oxides

## 5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover.

Do not move the load if exposed to heat.

In case of fire: do not breathe fumes.

Wear self-contained breathing apparatus for fire fighting

## Section 6: Accidental release measures

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

No special measures are necessary.

### 6.2 Environmental precautions

Do not allow to enter public sewers and waterways

## 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.

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# Section 7: Handling and storage

## 7.1. Precautions for safe handling

No special measures are necessary.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place

## 7.3 Specific end uses(s)

Single sided conductive adhesive copper tape for holding samples in EM and analytical applications.

## Section 8: Exposure control and personal protection

## 8.1. Control parameters

No ingredients listed in this section.

### 8.2 Exposure controls

Control procedures: Avoid creating or accumulating dust or fine particles

Wash hands before breaks and at the end of the work

Maintain appropriate working environment

Personal protection: Protective work clothing Inhalation: Not normally required Not normally required Hands and skin: Eyes:

Not normally required

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# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance/physical state: Roll of tape on 76mm plastic core

Colour: Red copper Odour: None

pH Not applicable
Melting point/range: Not determined
Boiling point/range: Not determined
Flammability: Not determined
Flash point: Not determined
Evaporation rate: Not available
Explosion limits: upper limit: Not determined

lower limit: Not determined

Vapour pressure: Negligible at ambient temperature and pressure

Relative density: ~ 5.5 g.cm<sup>3</sup>

Solubility in water:

Auto-ignition:

Viscosity:

Not soluble in water

Not determined

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

No hazardous reactions known if used for its intended purposes

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#### 10.4 Conditions to avoid

Contact with incompatible materials

## 10.5 Incompatible materials

Acids, strong bases, oxidizing agents, amines

#### 10.6 Hazardous decomposition products

Acrylic fumes, metal oxide fumes, CO, CO2

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

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

Inhalation: Not classified
Skin contact: Not classified
Eye contact: Not classified
Sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified

**Specific target organ toxicity – single exposure:** Not classified **Specific target organ toxicity – repeated exposure:** Not classified

#### **Toxicological data:**

No toxicological data available

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

**If swallowed:** No effects known

**If in eyes:** Generally, not an eye irritant

If inhaled: No effects known
If on skin: No effects known

Other information: Health effects are not known

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## 11.2. Endocrine disrupting properties

Not listed

#### 11.3. Information on other hazards

There is no additional information

# Section 12: Ecological information

## 12.1. Aquatic toxicity

Shall not be classified as hazardous to the aquatic environment.

## 12.2 Persistence and degradability

No data available

## 12.3 Bio-accumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Endocrine disrupting properties

Not listed

## 12.7 Hazardous decomposition products

No information available

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# 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

## 14.3 Transport hazard class(es)

Class: N/A ADR/RID-Classification code: N/A

## 14.4 Packing group

Packing: N/A

## 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A IMDG-Marine pollutant: N/A IATA/ICAO-Environmentally hazardous: N/A

## 14.6 Special precautions for user

ADR/RID-Tunnel code: N/A (Contd. on page 9)



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IMDG-Ems: N/A (Contd. of page 8)

IATA/ICAO-PAX: N/A IATA/ICAO-CAO: N/A

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 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 substance subject to authorization (REACH, Annex XIV)/SVHC - candidate list: Not listed

## 15.2 Chemical safety assessment

No information available

## 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 (Contd. on page 10)



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NOEC	No observed effect concentration
LC50	Lethal dose single exposure to causing 50% lethality
LD50	Lethal dose 50% corresponds to causing 50% lethality during a specific time
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.

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