

Safety Data Sheet

Regulation EC Nr. 1907/2006 Art.31

Product name: EM-Tec single sided conductive copper SEM tape
Document Nr.: SDS00115000103

Date: February 22nd 2018
Version: 1.0

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

1.1. Product Identifier

Name: EM-Tec single sided conductive copper SEM tape

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

Vof Micro to Nano
Wateringweg 79
2031EK Haarlem
Netherlands
Tel: +31(0)85-2013155
E: info@microtonano.com

1.4 Emergency telephone number

+31(0)85-2013155 (office hours) Vof Micro to Nano, Netherlands

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical:	Not classified
Health:	Not classified
Environment:	Not classified
Other hazards:	Not classified

Classification according to Regulation EC Nr. 1272/2008

The substance is not classified as hazardous to health or to the environment according to CLP regulation.

Classification according to 67/548/EEC of 1999/45/EC

Not applicable



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2.2 Labeling elements

Not applicable

2.3 Other hazards

Not applicable

Section 3: Composition / information on components

3.1. Substances

Single sided adhesive copper foil tape pressure sensitive acrylate 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:	Wash with water and soap.
Inhalation:	Seek medical attention if irritation persists. Fresh air, keep warm and at rest.
Ingestion:	Seek medical attention if ill effects occur. Not a route of exposure. Not considered hazardous.

4.2. Important symptoms and effects, either immediate or delayed

Inhalation:	Not a route of exposure under normal use conditions
Ingestion:	Not a route of exposure



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Skin contact: Generally, not a skin irritant
Eye contact: Generally, not irritating to eyes

4.3. Indication of any immediate medical attention and special treatment

General advise: 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, carbon dioxide, foam or dry agent

5.2 Special hazards arising from the substance or mixture

Toxic acrylic fumes, metal oxides

5.3 Advice to firefighters

Keep container(s) exposed to fire cool by spraying with water
In case of fire; do not breathe fumes

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required

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



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6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Not required

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated place away from heat or direct sunlight.
Preferred storage: refrigerator

7.3 Specific end uses(s)

Adhesive for holding samples in microscopy and surface science applications

Section 8: Exposure control and personal protection

8.1. Control parameters

No ingredients listed in this section.

8.2 Exposure controls

Control procedures:	General room ventilation is adequate when using the carbon tape Maintain appropriate working environment
Personal protection:	Protective work clothing
Inhalation:	Not normally required
Hands and skin:	Not normally required
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
Colour:	Copper-orange
Odour:	None
pH	Not applicable
Melting point/range:	Not determined
Boiling point/range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not available
Explosion limits: upper limit:	Not determined
lower limit:	Not determined
Vapour pressure:	Negligible at room temperature
Density:	~ 5.5 g/cm ³
Solubility in water:	Not soluble in water
Auto-ignition:	Not determined
Viscosity:	Not applicable

9.2 Other information

None

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purposes

10.2 Chemical stability

Stable under normal 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, oxidising agents, amines

10.6 Hazardous decomposition products

Thermal decomposition products may include carbon monoxide, carbon dioxide and metaloxide

Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation:	Not available
Skin contact:	Not available
Eye contact:	Not available
Sensitisation:	No effects known
Carcinogenicity:	No effects known

Toxicological data: No data for LD/LC 50 values

Section 12: Ecological information

12.1. Aquatic toxicity

Not classified

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

Insoluble in water

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Hazardous decomposition products

No information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: This material and its packaging 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



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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
IMDG-Ems: N/A
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

Not listed

15.2 Chemical safety assessment

No information available

Section 16: Other information

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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