

Product name: Micro-Tec MET-C conductive embedding compound
Document Nr.: SDS2929002295-01

Date: June 1st 2022
Version: 1.0

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

1.1. Product Identifier

Micro-Tec MET-C conductive embedding compound

1.2 Relevant identified uses of the substance or mixture and uses advised against

For making conductive metallographic embeddings and mounts with hot-embedding systems

1.3. Details of the supplier of the Safety Data Sheet

Micro to Nano VOF
Tappersweg 91
2031ET Haarlem, Netherlands
Tel: +31(0)85-2013155
E: info@microtonano.com

1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures, or accidents

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical:	Not applicable
Health:	Suspected of causing genetic defects Muta.2 Harmful if swallowed acute toxicity 4 Harmful if inhaled acute toxicity 4 Serious eye irritation category 2 Skin irritation category 2 Skin sensitizer category 1
Environment:	Not applicable
Other hazards:	None

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Classification according to Regulation EC Nr. 1272/2008

	Xi: Irritant
	Xn: Harmful
Health:	R23 Toxic by inhalation R24 Toxic if swallowed R36: Irritating to eyes R38: Irritating to skin R46 May cause inheritable genetic damage
Physical	Not classified
Environment:	Not classified
Other hazards:	Not classified

2.2 Labeling elements

Labelling accordance to Regulation EC Nr. 1272/2008

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302+H332: Harmful if swallowed or if inhaled
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H341: Suspected of causing genetic defects

Precautionary statement(s)

Prevention:

P101: If medical advice is needed, have product/container/label at hand
P102: Keep out of reach of children
P103: Read label before use
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P270: Do not eat, drink, or smoke when using this product
P 271: Use only outdoors or in well ventilated area (fume hood)
P 273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection

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Response: P308+P313: If exposed or concerned: Get medical attention
P312: Call a poison center/doctor/physician/first aider if you feel unwell
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical attention
P302+P352: If on skin: Wash with plenty of water and soap.
P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing
P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water (or shower)
P362+P364: Take off contaminated clothing and wash it before use
P391: Collect spillage

Storage: P403+P235: Store in a well-ventilated place. Keep cool
P405: Store locked up

Disposal: P501: Dispose of contents/container in accordance to local/regional/international regulations

Supplemental hazard info: none

2.3 Other hazards

Not applicable

Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

1. CAS Nr 2. EC Nr 3. Index Nr 4. REACH No	% (weight)	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation Nr 1272/2008 [CLP]
9003-35-4 500-005-2 Not available Not available	40-80	Phenolic resin	R23R24R46	H301;H311;H331;H341;H373;H314



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9004-34-6 232-674-9 Not available Not available	0-20	Wood flour	R23R24	
65997-17-3 Not available Not available Not available	0-40	Glass fiber	R23R24	
7782-42-5 231-935-3 Not available Not available	10-30	Graphite	R23R24	H302, H312, H332, H316

(* Explanation notes: see section 16)

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.
 Seek medical attention if irritation persists.
- Contact with skin:** Wash with water and soap.
 Seek medical attention if irritation persists.
- Inhalation:** Fresh air, keep warm and at rest.
 Seek medical attention if ill effects occur
- Ingestion:** If swallowed, do not induce vomiting
 Seek immediate medical advice
 If vomiting appears imminent or occurs hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.
 Never give liquid to a person with reduced awareness
 Give water to rinse out mouth, then provide water slowly as much as casually can comfortably drink
 Avoid giving milk or oils
 Avoid giving alcohol

4.2. Important symptoms and effects, either immediate or delayed

No further relevant information available

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4.3. Indication of any immediate medical attention and special treatment

No further relevant information available

Section 5: Firefighting Measures

5.1. Extinguishing media

Use fire extinguishing methods suitable to surrounding conditions
Water spray or fog may be inefficient

5.2 Special hazards arising from the substance or mixture

The product is or contains an allergen that may cause irritation by skin contact

5.3 Advice to firefighters

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

Avoid contact with skin
Avoid breathing fumes/vapours
Ensure adequate ventilation
Wear suitable protective clothing including eye/face protection

6.2 Environmental precautions

Avoid release to the environment
Do not allow to enter public sewers and waterways

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6.3 Methods and material for containment and clean up

Absorb spillage in suitable inert material
Clean up spills immediately
Avoid breathing vapours/dust
Control personal contact with the substance, by using protective equipment
Wash spill area with soap and water to remove last traces of residue

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children
Do not breathe dust or vapours
Ensure adequate ventilation
Avoid contact with skin and eyes
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection
Have eyewash bottles available

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well-ventilated place
Store locked up
Keep cool

7.3 Specific end uses(s)

Making conductive embedding s and moulds for metallographic sample processing using hot embedding press systems

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Section 8: Exposure control and personal protection

8.1. Control parameters

Exposure limits

8 hours daily admissible concentration/short time average admissible concentration/maximum admissible concentration: Not applicable

Biological indicator: Not applicable

8.2 Exposure controls

Control procedures:	Ensure adequate ventilation
Personal protection:	Take precautions to avoid contact with eyes and skin when handling the products Ensure adequate ventilation
Inhalation:	Ensure adequate ventilation or fume hood
Hands and skin:	Wear suitable gloves against chemicals; recommended gloves: Nitrile
Eyes:	Wear safety goggles or full-face protection

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	Powder
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not determined
pH	9-10
Boiling point/range:	Not applicable
Flash point:	192°C (closed cup)
Decomposition temperature:	260°C
Evaporation rate:	Not available
Flammability:	Not determined
Explosion limits: upper limit:	Not determined

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lower limit:	Not determined	cont. from previous page
Vapour pressure:	Not available	
Vapour density:	Not applicable	
Relative density:	1.4 – 2.0 g/cm ³ @ 20°C	
Solubility in water:	Does not dissolve in water	
Auto-ignition:	Product is not selfigniting	
Viscosity:	Not applicable	

9.2 Other information

VOC: 0%

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purposes

10.2 Chemical stability

Stable at normal temperatures and pressures

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases

10.6 Hazardous decomposition products

No dangerous decomposition products known

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Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

- Inhalation:** Inhalation may cause respiratory irritation
- Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Skin contact:** May cause allergic reaction
- Eye contact:** Irritation to eyes

Toxicological data:

No further toxicological data available for this substance

Section 12: Ecological information

12.1. Toxicity

Not available

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

No information available

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12.6 Hazardous decomposition products

No experimental data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.
Containers may still present a chemical hazard when empty
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: Void

14.2 UN proper shipping name

Proper shipping name: Void

14.3 Transport hazard class(es)

Class: Void
ADR/RID-Classification code: Void

14.4 Packing group

Packing: Void
Limited Quantity: Void

14.5 Incompatible materials

ADR/RID- Environmentally hazardous: Not applicable

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IMDG-Marine pollutant: No relevant data cont. from previous page
IATA/ICAO-Environmentally hazardous: No relevant data

14.6 Special precautions for user

ADR/RID-Tunnelcode: Void
IMDG-EMS: Void
IATA/ICAO-PAX: Void
IATA/ICAO-CAO: Void
IATA/ICAO-DGR: Void

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

UN-number: Void

15.2 Chemical safety assessment

No information available

Section 16: Other information

RoHS Directive Compliant

Not applicable

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)

Safety advice:

S02 – Keep out of reach of children.

S09 – Keep container in a well-ventilated place.

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- S13 – Keep away from food, drink and animal feeding stuff. Cont. from previous page
S16 – Keep away from sources of ignition. No smoking.
S23 – Do not breath gas/fumes/vapour/spray.
S26 – In case of contact with eyes, rinse with plenty of water and seek medical help.
S281 – After contact with skin, wash immediately with detergent and plenty of waterways.
S29 – Do not empty in drains.
S33 – Take precautionary measures against static discharges.
S35 – This material and its container must be disposed of in a safe way.
S36 – Wear suitable protective clothing.
S37 – Wear suitable gloves.
S38 – In case of insufficient ventilation, wear suitable respiratory equipment.
S39 - Wear eye / face protection.
S41 – In case of fire and/or explosion; DO NOT breathe fumes.
S43 – In case of fire use....
S45 – In case of accident or if you feel unwell, immediately contact Doctor or Poisons information center (show label if possible).
S46 – If swallowed, seek immediate medical advice and show label if possible.
S56 – Dispose of this material and its container at hazardous or special waste collection point.
S57 – Use appropriate container to avoid environment contamination.
S61 – Avoid release to the environment
S63 – In case of accident by inhalation, remove casualty to fresh air and keep at rest.
S64 – If swallowed, rinse mouth with water (only if person is conscious)

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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