

Product name: BEL-1 conductive coating fluid
Document Nr.: SDS00152008001

Date: October 5th 2022
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Section 1: Identification of the substance or mixture and the company

1.1. Product Identifier

BEL-1 conductive coating solution (fluid)
The substance does not require registration according to regulation (EC) N. 1907/2006 (REACH).

1.2 Relevant applications of the material and uses advised against

Coating of non-conductive SEM sample with a conductive layer to dissipate charge

1.3. Company details

Vof Micro to Nano
Tappersweg 91
2031ET 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 according to Regulation EC Nr. 1272/2008

Physical:	None
Health:	Eye irritation, category 1, H320
Environment:	None
Other hazards:	None

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

Hazard pictogram(s): GHS07



Signal word: Warning
Hazard statement(s): H320: Causes eye irritation

Precautionary statement(s)

Prevention:
P102: Keep out of reach of children
P260: Do not breath dust/fumes/gas/mist/vapours/spray
P270: Do not eat, drink or smoke when using this product
P 271: Use 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

Response:
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.
P337+P313: If eye irritation persists: Get medical attention
P302+P352: If on skin: Wash with plenty of water and soap.
P391: Collect spillage

Storage: None

Disposal: P501-2: Dispose of contents/container to an authorised waste collection point

Supplemental hazard info: None

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

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Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

Proprietary mix of polythiopene-2,5diyl (C₄H₄S – CAS 25233-34-5) in aqueous solution (<10%).

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

Inhalation: No information available
Ingestion: No information available
Skin contact: No information available
Eye contact: Irritating to eyes
Symptoms: redness and pain, impaired vision

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

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Section 5: Firefighting Measures

5.1. Extinguishing media

CO2 or water spray. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

None known

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

Dilute with plenty of water.
Do not allow to enter public sewers and waterways

6.3 Methods and material for containment and clean up

Absorb spillage with liquid binding material (sand, diatomite, sawdust, universal binders)
Clean up spills immediately
Wash spill area with soap and water to remove last traces of residue

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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

Ensure good ventilation at workplace.
Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place

7.3 Specific end uses(s)

Not required

Section 8: Exposure control and personal protection

8.1. Control parameters

This product does not contain any relevant quantities of materials with critical values which have to be monitored at the workplace

8.2 Exposure controls

Control procedures: Ensure adequate ventilation
Keep away from foodstuffs, beverages and feed
Immediately removed all soiled and contaminated clothing
Wash hands before breaks and at end of work

Personal protection: Take precautions to avoid contact with eyes and skin when handling the products

Inhalation: In case of insufficient ventilation, wear suitable respiratory equipment

Hands and skin: Wear suitable gloves against chemicals; recommended gloves:
Nitrile

Eyes: Wear safety goggles

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	Liquid
Colour:	Transparent
Odour:	None
pH	7
Melting point/range:	0°C
Boiling point/range:	100°C
Flammability:	Material is combustible, but will not ignite readily
Flash point:	Not determined
Evaporation rate:	Not available
Explosion limits: upper limit:	Not determined
lower limit:	Not determined
Vapour pressure:	Not applicable
Relative density:	1 g/cm ³ @ 20°C
Solubility in water:	Fully miscible with water
Auto-ignition:	Not determined
Viscosity:	1 cP

9.2 Other information

VOC: none

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction known if used for its intended purpose.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No hazardous reaction known if used for its intended purpose.

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10.4 Conditions to avoid

Prevent freezing.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

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:	Irritation to eyes
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 not available

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed:	Data are not available
If in eyes:	Redness and pain, impaired vision
If inhaled:	Data are not available
If on skin:	Data are not available
Other information:	Health effects are not known

11.2. Endocrine disrupting properties

Not listed

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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

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IMDG-Ems:	N/A	(Contd. of page 9)
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)

Relevant phrases:

H320: Causes eye irritation

Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable

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Safety Data Sheet

Regulation EC Nr. 1907/2006 Art.31

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GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
N/A	Not applicable
N/E	Not estimated
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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