

**Product name:** EM-Tec C20 conductive carbon pen  
**Document Nr.:** SDS0015001120-01

**Date:** April 5th 2022  
**Version:** 1.0

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

### 1.1. Product Identifier

EM-Tec C20 conductive carbon pen with micro tip

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

For making grounding paths on SEM samples, repairing traces on circuit boards, making contact pads.

### 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

<b>Physical:</b>	Flammable liquid category 2
<b>Health:</b>	May cause drowsiness or dizziness Serious eye irritation category 1 Skin sensitizer category 1 Suspected of causing cancer Specific organ
<b>Environment:</b>	Not applicable
<b>Other hazards:</b>	None



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E info@microtonano.com  
I www.microtonano.com

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## Classification according to Regulation EC Nr. 1272/2008

F: HIGHLY FLAMMABLE

Xi: Irritant

Xn: Harmful

**Health:** R36: Irritating to eyes  
R38: Irritating to skin  
R48: Danger of serious damage to health by prolonged exposure  
R67: Vapours may cause drowsiness and dizziness

**Physical** R11: Highly flammable

**Environment:** Not classified

**Other hazards:** Not classified

## 2.2 Labeling elements

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

**Hazard pictogram(s):**



**Signal word:**

**Hazard statement(s):**

**Danger**

H225: Highly flammable liquid and vapour  
H317: May cause an allergic skin reaction  
H318: Causes serious eye damage  
H336: May cause drowsiness or dizziness  
H351: Suspected of causing cancer  
EUH066: Repeated exposure may cause skin dryness or cracking

**Precautionary statement(s)**

**Prevention:**

P102: Keep out of reach of children  
P201: Obtain special instructions before use  
P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking  
P240: Ground and bond container and receiving equipment  
P241: Use explosion proof electrical/ventilating/lighting/intrinsically safe equipment  
P242: Use non-sparking tools  
P243: Take action to prevent static discharges  
P261: Avoid breathing mist/vapours/spray



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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**Response:**

P264: Wash all exposed external body areas thoroughly after handling  
P270: Do not eat, drink, or smoke when using this product  
P 271: Use only outdoors or in well ventilated area (fume hood)  
P272: Contaminated work clothing should not be allowed out of the work place  
P 273: Avoid release to the environment  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P308+P313: If exposed or concerned: Get medical attention  
P312: Call a poison center/doctor/physician/first aider if you feel unwell  
P370+378: In case of fire: Use alcohol resistant foam or protein foam for extinction  
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+P533: 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

Inhalation may produce health damage  
Cumulative effects may result following exposure  
May produce discomfort of the respiratory system

## Section 3: Composition / information on components

### 3.1. Substances

Not applicable



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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## 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]
67-64-1 200-662-2 606-001-00-8 01-2119471330-49-xxxx	36	acetone	R11R36R66R67	Flam. Liq. 2, Eye Irri. 2, STOT SE 3; H225, H319, H336, EUH066
110-19-0 203-745-1 607-026-00-7 01-2119488971-22-xxxx	30	Isobutyl acetate	R11	Flammable liquid 2: H225. EUH066
71-63-3 200-751-6 603-004-00-6 01-2120076484-50-xxxx	10	n-butanol	R11R36R66R67	Flam. Liq. 3, Acute Tox, 4; H226, H302, H335, H315, H318, H336
1333-86-4 215-609-9   422-130-0 Not available 01-2119384822-32-xxxx	6	Carbon black	R11R36R66R67	Flam. Liq. 2, Eye Irri. 2, STOT SE 3; H225, H319, H336, EUH066
108-65-6 203-603-9 607-195-00-7 Not available	4	Propylene glycol monomethyl ether acetate alpha isomer	R10	Flam. Liq. 3; H226
25619-56-1 247-132-7 Not available Not available	0.5	Barium dinonyl naphthalenesulfonate	R36R38R48	Acute Tox.4, Skin Irr. 2, Ser. Eye Dam 1; H302+H332, H315, H318

(\* Explanation notes: see section 16)

## Section 4: First aid measures



**Micro to Nano**

Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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## 4.1. Description of first aid measures

<b>Contact with eyes:</b>	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. Seek medical attention if irritation persists.
<b>Contact with skin:</b>	Wash with water and soap. Seek medical attention if irritation persists.
<b>Inhalation:</b>	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
<b>Ingestion:</b>	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

<b>Inhalation:</b>	Excessive inhalation of solvent vapours may give rise to cough, drowsiness, headaches, and dizziness
<b>Ingestion:</b>	May cause respiratory and digestive tract irritation Symptoms: sore throat, abdominal pain, nausea, vomiting
<b>Skin contact:</b>	Mildly irritating to skin Symptoms: redness, irritation and dry skin
<b>Eye contact:</b>	Irritating to eyes Symptoms: redness, irritation and pain, impaired vision

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

<b>General advice:</b>	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

Alcohol stable foam, dry chemical powder, CO2



**Micro to Nano**

Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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Water spray or fog – Large fires only

## 5.2 Special hazards arising from the substance or mixture

The vapours are heavier than air and may accumulate in low-lying areas  
Produces CO and CO<sub>2</sub>

## 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

Shut off all ignition sources  
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

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

Absorb spillage in suitable inert material  
Clean up spills immediately  
Avoid breathing vapours  
Control personal contact with the substance, by using protective equipment  
Collect spillage, absorbed spillage and wipes in a flammable waste container  
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



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Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
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## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children  
Keep away from sources of ignition  
Do not breathe aerosols 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 grounding paths for SEM samples  
Repairing traces on circuit boards  
Making contact pads

## Section 8: Exposure control and personal protection

### 8.1. Control parameters

#### Exposure limits

#### Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Acetone	Acetone	UK	1210mg/m <sup>3</sup>	3620mg/m <sup>3</sup>	Not available	Not available



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Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
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		EU	1210mg/m3	Not available	Not available	Not available
Isobutyl acetate	Isobutyl acetate	UK	724mg/m3	903mg/m3	Not available	Not available
		EU	Not available	Not available	Not available	Not available
n-butanol	Butan-1-ol	UK	Not available	154mg/m3	Not available	Skin
		EU	Not available	Not available	Not available	Not available
Carbon black	Carbon black	UK	3.5mg/m3	7mg/m3	Not available	Not available
		EU	3.5mg/m3	7mg/m3	Not available	Not available
Propylene glycol monomethyl ether acetate, alpha isomer	1-Methoxypropyl-2-acetate	UK	274mg/m3	548mg/m3	Not available	Skin
		EU	275mg/m3	550mg/m3	Not available	Skin

## 8.2 Exposure controls

- Control procedures:** Ensure adequate ventilation  
 Keep away from heat sources and ignition sources
- Personal protection:** Take precautions to avoid contact with eyes and skin when handling the products  
 Ensure adequate ventilation
- Inhalation:** In case of insufficient ventilation, wear suitable respiratory equipment:  
 Air purifying respirator with organic gas/vapour cartridge (type A)
- 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:** Liquid
- Colour:** Black
- Odour:** Not available
- Odour threshold:** 5 ppm
- pH** Not available
- Boiling point/range:** 56°C
- Flash point:** -17°C (closed cup)
- Evaporation rate:** Not available



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Innovative Microscopy Supplies

Tappersweg 91  
 2031ET Haarlem  
 The Netherlands

T +31-85-2013155  
 E [info@microtonano.com](mailto:info@microtonano.com)  
 I [www.microtonano.com](http://www.microtonano.com)



# Safety Data Sheet

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**Flammability:** Highly flammable  
**Explosion limits: upper limit:** 12%  
**lower limit:** 2%  
**Vapour pressure:** Not available  
**Vapour density:** >2  
**Relative density:** 1.7 g/cm<sup>3</sup> @ 20°C  
**Solubility in water:** partly miscible  
**Auto-ignition:** 465°C  
**Viscosity:** 128.090 cSt

## 9.2 Other information

**VOC:** Not available

## 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

Avoid overheating, ignition sources and incompatible substances

### 10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases

### 10.6 Hazardous decomposition products



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Tappersweg 91  
2031ET Haarlem  
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T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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CO, CO2 and smoke

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure:

- Inhalation:** Inhalation of solvent vapours may give rise to nausea, headaches and dizziness  
**Ingestion:** Not classified as harmful by ingestion  
**Skin contact:** Not thought to have harmful health effects, the material may still produce health damage following entry through wounds, lesions or abrasions  
**Eye contact:** Irritation to eyes

#### Toxicological data:

Ingredient	Toxicity	Irritation
Acetone	Not available	Eye (human): 500ppm - irritant
		Eye (rabbit): 20mg/24h - moderate
		Skin (rabbit): 500mg/24hr - mild
isobutyl acetate	Dermal (tabbit) LD50: 5000mg/kg	
	Oral (rat) LD50: 13400mg/kg	Skin (rabbit): 500mg - mild
n-butanol	Dermal(rabbit) LD50: 3400mg/kg	Eye (rabbit): 1.6mg - severe
	Inhalation (rat) LC50: 24mg/L4h	Skin (rabbit): 405 mg - moderate
	Oral (rat) LD50: 790mg/kg	
Carbon black	Dermal (rat) LD50: 2000mg/kg	Eye: no adverse effects observed
	Oral(rat) LD50: 15400 mg/kg	Skin: No adverse effects observed
Propylene glycol monomethyl ether acetate, alpha-isomer	Dermal(rat) LD50: 2000mg/kg	Eye: no adverse effects observed
	Inhalation(rat)LC50: 6.5mg/L/6h	Skin: No adverse effects observed
	Oral (rat) LD50: 5155mg/kg	
Barium dionyl naphtalenesulfonate	Dermal (rabbit) LD50: 2000mg/kg	Eye(rabbit): 250mg/5d - mild



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Innovative Microscopy Supplies

Tappersweg 91  
 2031ET Haarlem  
 The Netherlands

T +31-85-2013155  
 E [info@microtonano.com](mailto:info@microtonano.com)  
 I [www.microtonano.com](http://www.microtonano.com)

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	Inhalation (rat) LC50: 5.25mg/l/1H	
	Oral (rat) LD50: 3000mg/kg	
EM-Tec C20 conductive carbon pen	Not available	Not available

## Section 12: Ecological information

### 12.1. Toxicity

Not available

### 12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	Medium (Half-life = 116.25 days)
isobutyl acetate	LOW	LOW
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)
Propylene glycol monomethyl ether acetate, alpha isomer	LOW	LOW

### 12.3 Bioaccumulative potential

Ingredient	Bioaccumulation
acetone	LOW (BCF = 69)
Isobutyl acetate	LOW (LogKOW = 1.78)
n-butanol	LOW (BCF = 0.64)
Propylene glycol monomethyl ether acetate, alpha isomer	LOW (logKOW = 0.56)

### 12.4 Mobility in soil

Ingredient	Bioaccumulation
acetone	HIGH(KOC = 1.981)



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Innovative Microscopy Supplies

Tappersweg 91  
 2031ET Haarlem  
 The Netherlands

T +31-85-2013155  
 E [info@microtonano.com](mailto:info@microtonano.com)  
 I [www.microtonano.com](http://www.microtonano.com)

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Isobutyl acetate	LOW (KOC = 17.48)
n-butanol	MEDIUM (KOC = 2.443)
Propylene glycol monomethyl ether acetate, alpha isomer	HIGH (KOC = 1.838)

## 12.5 Results of PBT and vPvB assessment

No information available

## 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

Labels required:



### Excepted Quantity

Code E2 for all modes of transport

On air waybill, write "Dangerous goods in excepted quantity"

### 14.1. UN number



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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**UN-number:** 1263

## 14.2 UN proper shipping name

**Proper shipping name:** PAINT or PAINT RELATED MATERIAL

## 14.3 Transport hazard class(es)

**Class:** 3  
**ADR/RID-Classification code:** F1

## 14.4 Packing group

**Packing:** II  
**Limited Quantity:** 5L

## 14.5 Incompatible materials

**ADR/RID- Environmentally hazardous:** Not applicable  
**IMDG-Marine pollutant:** Yes  
**IATA/ICAO-Environmentally hazardous:** No relevant data

## 14.6 Special precautions for user

**ADR/RID-Tunnelcode:** (D/E)  
**IMDG-EMS:** F-E, S-E  
**IATA/ICAO-PAX:** 353  
**IATA/ICAO-CAO:** 364  
**IATA/ICAO-DGR:** Y341

## 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



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

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## 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
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bioaccumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
SEM	Scanning Electron Microscope
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TCLo	Lowest published toxic concentration
vPvB	very Persistent and very Bioaccumulative
WEEE	Waste Electrical and Electronic Equipment

### DSD / DPD label elements



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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
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## Full Text Risk and Hazard codes

H225: Highly flammable liquid and vapour  
H226: Flammable liquid and vapour  
H302: Harmful if swallowed  
H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H318: Causes serious eye damage  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation  
H336: May cause drowsiness or dizziness  
H351: Suspected of causing cancer  
H372: Causes damage to organs through prolonged or repeated exposure  
EUH066: Repeated exposure may cause skin dryness or cracking

R36: Irritating to eyes  
R38: Irritating to skin  
R48: Danger of serious damage to health by prolonged exposure  
R67: Vapours may cause drowsiness and dizziness  
R11: Highly flammable  
R52: Harmful to aquatic organisms

## Safety advice:

S02 – Keep out of reach of children.  
S09 – Keep container in a well-ventilated place.  
S13 – Keep away from food, drink and animal feeding stuff.  
S16 – Keep away from sources of ignition. No smoking.  
S23 – Do not breathe 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.  
S40 – In case of insufficient ventilation, wear suitable respiratory equipment.  
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.  
S52 – Not recommended for interior use on large surfaces.  
S53 – Avoid exposure – obtain special instructions before use.



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- 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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Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)