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

1.1. Product Identifier

1.2 Relevant applications of the material and uses advised against

Target material for vacuum deposition (sputtering or thermal evaporation) SEM stubs and SEM holders

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

Physical: 0
Health: 0
Flammability: 0
Environment: None
Other hazards: None

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.



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

Not applicable

2.2 Labeling elements

Not applicable

2.3 Other hazards

Not applicable

Section 3: Composition / information on components

3.1. Substances

Solid aluminium in various forms. EC #: 231-072-3 CAS #: 7429-90-5

3.2 Mixtures

Not applicable

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.

Seek medical attention if irritation persists.

Inhalation: Fresh air, keep warm and at rest.

Seek medical attention of ill effects occur

Ingestion: If swallowed, do not induce vomiting

Seek immediate medical advice

4.2. Important symptoms and effects, either immediate or delayed

Inhalation: No information available Ingestion: No information available



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I www.microtonano.com

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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

Dry agent on dust and fine particles. Water for chips, turnings and larger pieces

5.2 Special hazards arising from the substance or mixture

Small chips, fine turnings and dust from processing are readily ignitable Metal oxide fumes

5.3 Advice to firefighters

Wear self-contained breathing apparatus Wear full protective suit.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment Keep unprotected persons away Ensure adequate ventilation

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 7, 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid creating or accumulating dust or fine particles Provide adequate ventilation Avoid breathing dust or fumes

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place Keep away from oxidising agents Keep out of reach of children

7.3 Specific end uses(s)

Not required

Section 8: Exposure control and personal protection

8.1. Control parameters

Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Aluminium dust	Aluminium (Al)	EU	5 mg/m ³	1 mg/m ³	Not available	Not available

8.2 Exposure controls

Control procedures: Avoid creating or accumulating dust or fine particles

Keep sources of ignition away

Wash hands before breaks and at the end of the work

Maintain appropriate working environment



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Personal protection: Protective work clothing

Inhalation: Use breathing protection with high concentrations

Hands and skin: Suitable gloves

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: Solid in various forms

Colour: Silvery metallic

Odour: None

pH Not applicable

Melting point/range: 660°C Boiling point/range: 2467°C

Flash point: Not determined Evaporation rate: Not available Explosion limits: upper limit: Not determined

lower limit: Not determined

Vapour pressure:
Relative density:
Solubility in water:
Auto-ignition:
Viscosity:
Not applicable
2.7 g/cm3 @ 20°C
Not soluble in water
Not determined
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 recommended storage conditions



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10.3 Possibility of hazardous reactions

Aluminium dust or fine particles will burn when exposed to an ignition source

10.4 Conditions to avoid

Avoid creating or accumulating dust or fine particles

10.5 Incompatible materials

Acids, oxidising agents, alkalis, halogenated compounds, iron oxide. Reactions are more likely to occur when aluminium is molten or in fine particles

10.6 Hazardous decomposition products

Metal oxide fume, hydrogen

Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation:May cause irritationSkin contact:Powder – irritant effectEye contact:Powder – irritant effectSensitisation:No effects knownCarcinogenicity:No effects known

Toxicological data: No data for LD/LC 50 values

Section 12: Ecological information

12.1. Aquatic toxicity

No information available



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12.2 Persistence and degradability

No information available

12.3 Bio-accumulative potential

No information available

12.4 Mobility in soil

No information available

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 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



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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 poluttant: N/A IATA/ICAO-Environmentally hazardous: N/A

14.6 Special precautions for user

ADR/RID-Tunnelcode: 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

TSCA: All components are listed

15.2 Chemical safety assessment

No information available



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Section 16: Other information

This products 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.

