

Safety Data Sheet

Regulation EC Nr. 1907/2006 Art.31

Product name: Solid stainless steel in various manufactured forms
Document Nr.: SDS00115225050

Date: December 2nd 2015
Version: 1.0

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

1.1. Product Identifier

Name: Items made from stainless steel such as tweezers, forceps, mesh, probes, needles, AFM/SPM discs, tools, needle probe holders

1.2 Relevant applications of the material and uses advised against

Tweezers, forceps, mesh, probes, needles, AFM/SPM discs, tools, needle probe holders, cutting blades

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

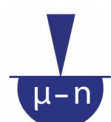
Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification according to Regulation EC Nr. 1272/2008

The materials are 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 stainless steel products in various manufactured forms, including AISI types 201, 202, 301, 302, 303, 304, 304L, 316, 316L, 410, 420, 430

3.2 Components

Component	Symbol	EC Nr.	CAS Nr.	WT%
Iron	Fe	231-096-4	7439-89-6	Balance
Chromium	Cr	231-157-5	7440-47-3	11.0 - 19.0
Nickel	Ni	231-111-4	7440-02-0	0 - 15.0
Manganese	Mn	231-105-1	7439-96-5	0.5 - 1.0
Silicon	Si	231-130-8	7440-21-3	0 - 1.0
Molybdenum	Mo	231-107-2	7439-98-7	0 - 3.0
Carbon	C	231-955-3	7782-42-5	0 - 0.15

All trace elements as cadmium, lead, mercury, hexavalent chromium, antimony, beryllium and bismuth are below the levels specified in the European ELV and RoHS Directives.

Other elements may be present such as nitrogen, sulfur, phosphorous, boron, aluminium, calcium, Niobium, tantalum, cobalt and tungsten. These are either not hazardous or below 0.1% concentration.



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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 if 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
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
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Section 5: Firefighting Measures

5.1. Extinguishing media

This material is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

None under normal circumstances.

5.3 Advice to firefighters

No specific fire fighting procedures given.



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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Recycle

6.3 Methods and material for containment and clean up

Pick up mechanically

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 by grinding
Avoid breathing dust

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



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Section 8: Exposure control and personal protection

8.1. Control parameters

Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Iron dust	Iron (Fe)	EU	10 mg/m ³	5 mg/m ³	Not available	Not available
Chromium dust	Chromium (cr)	EU	1 mg/m ³	0.5 mg/m ³	Not available	Not available
Nickel dust	Nickel (Ni)	EU	1 mg/m ³	1.5 mg/m ³	Not available	Not available
Manganese dust	Manganese (Mn)	EU	5 mg/m ³	0.2 mg/m ³	Not available	Not available
Silicon dust	Silicon (Si)	EU	5 mg/m ³	5 mg/m ³	Not available	Not available
Molybdenum dust	Molybdenum (Mo)	EU	15 mg/m ³	15 mg/m ³	Not available	Not available
Carbon dust	Carbon (C)	EU	10 mg/m ³	2.5 mg/m ³	Not available	Not available

8.2 Exposure controls

Control procedures: Avoid creating or accumulating dust or fine particles
Wash hands before breaks and at the end of the work
Maintain appropriate working environment

Personal protection: Protective work clothing

Inhalation: Use breathing protection with high concentrations of dust

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: Dull light grey to shiny grey metallic

Odour: None

pH: Not applicable

Melting point/range: 1370 - 1520°C

Boiling point/range: Not applicable



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Flash point:	Not applicable
Evaporation rate:	Not applicable
Explosion limits: upper limit:	Not applicable
lower limit:	Not applicable
Vapour pressure:	Not applicable
Relative density:	7.7 – 8.1 g/cm ³ @ 20°C
Solubility in water:	Not soluble in water
Auto-ignition:	Not applicable
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 recommended storage conditions

10.3 Possibility of hazardous reactions

Metal fumes when welding
Release of hydrogen, nitrogen or oxides when reacting with strong acids

10.4 Conditions to avoid

Avoid creating dust or fine particles

10.5 Incompatible materials

Strong acids, oxidising agents

10.6 Hazardous decomposition products

Metal fumes, hydrogen



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Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation:	May cause irritation
Skin contact:	Powder – irritant effect
Eye contact:	Powder – irritant effect
Sensitisation:	May cause an allergic reaction in sensitized individuals
Carcinogenicity:	No effects known

Toxicological data: No data for LD/LC 50 values

Section 12: Ecological information

12.1. Aquatic toxicity

No information available

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



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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-Tunnelcode: N/A
IMDG-Ems: N/A
IATA/ICAO-PAX: N/A
IATA/ICAO-CAO: N/A



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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

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.



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