Regulation EC Nr. 1907/2006 Art.31

Product name: Stainless steel in various manufactured forms
Date: October 5th 2022

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

1.1. Product Identifier

Stainless steel alloys in various manufactured forms
The substance is not subject to registration according to REACH

1.2 Relevant applications of the material and uses advised against

Tweezers, scissors, stubs, needles, probes, blades, blade holders etc.

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

Stainless steel is considered an article and not hazardous in its solid form. However, certain processes such as cutting, milling, grinding, melting, and welding could result in some hazardous materials being emitted. The following information is for the hazardous elements which may be emitted during these processes.

Physical: Not classified

Health: Skin sensitisation, category 1, H317

May cause allergy or asthma symptoms or breathing difficulties if inhaled,

Category 1, H334

Carcinogenicity, category 2, H351

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Suspected of damaging the unborn child, category 1, H361d

Specific target organ toxicity (repeated exposure), category 1, H372

Flammability: 0

Environment: Not classified

Other hazards: None

2.2 Labeling elements

Labelling accordance to Regulation EC. Nr 1272/2008





Hazard pictogram(s):

GH508

GHS07

Signal word: Danger

Hazard statements: H317: May cause an allergic skin reaction

H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled

H351: Suspected of causing cancer

H361d: Suspected of damaging the unborn child

H372: Causes damage to organs (respiratory system, skin) through

prolonged or repeated exposure

Precautionary statement(s)

Prevention: P280: Wear eye protection, face protection, protective clothing,

protective gloves

P302+P352: If on skin: Wash with plenty of water

P308+P340: If exposed or concerned: Get medical advice/attention: P333+P313: If skin irritation or rash occurs: Get medical advice/attention

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

Stainless steel in various manufactured forms

3.2 Mixtures

Component	Symbol	CAS Number	Wt% percent
Iron	Fe	7439-89-6	30-90
Chromium	Cr	7440-47-3	0-40
Nickel	Ni	7440-02-2	8-30
Manganese	Ma	7439-96-5	0-15
Molybdenum	Mo	7429-98-7	0-6
Copper	Cu	7440-50-8	0-5
Silicon	Si	7440-21-3	0-3
Aluminium	Al	7429-90-5	0-3
Cobalt	Co	7440-48-4	0-10
Titanium	Ti	7440-32-6	0-3
Vanadium	Va	1314-62-1	0-5
Tungsten	W	7440-33-7	0-5
Carbon	С	7440-44-0	0-1.5
Sulphur	S as SO2	7446-09-5	0-0.5
Niobium	Nb	7440-03-1	0-5
Tantalum	Та	7440-25-7	0-5
Lead	Pb	7439-92-1	Trace

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 (Contd. on page 4)



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Ingestion: If swallowed, do not induce vomiting (Contd. of page 3)

Seek immediate medical advice

4.2. Important symptoms and effects, either immediate or delayed

Skin contact: May an allergic skin reaction, rash.

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

Section 5: Firefighting Measures

5.1. Extinguishing media

Foam, dry extinguishing powder, ABC powder. Do not use water or water jet

5.2 Special hazards arising from the substance or mixture

Not applicable for solid product. Toxic metal oxide fumes may arise form dust.

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

Not applicable to stainless steel in solid form. Avoid dust formation. Ensure adequate ventilation. Wear protective clothing.

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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. Control dust

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 Wash hands before breaks and after work

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions for stainless steel in solid form

7.3 Specific end uses(s)

Not required

Section 8: Exposure control and personal protection

8.1. Control parameters

Occupational exposure limits (OEL)

There are no exposure limits for solid stainless steel. The exposure limit for iron containing fumes Has been established at 5mg/m3. The individual complex compounds with the fume may have lower exposure limits than the general fume. (Contd. on page 6)



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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

Hands and skin: Suitable gloves

Eyes: Wear safety goggles with side protection 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: Silver-gray metallic

Odour: None

pH Not applicable
Melting point/range: 1260 - 1535°C
Boiling point/range: Not appliable
Flash point: Not determined
Evaporation rate: Not available
Explosion limits: upper limit: Not determined

lower limit: Not determined e: Not applicable

Vapour pressure: Not applicable
Relative density: 7.6 – 8.0 g/cm3 @ 20°C

Solubility in water: Insoluble

Auto-ignition: Not determined Viscosity: Not applicable

9.2 Other information

There is no additional information

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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

No data available

10.4 Conditions to avoid

Contact with mineral acid. Dust formation.

10.5 Incompatible materials

Oxidisers, strong acids

10.6 Hazardous decomposition products

Metal oxide fume

Section 11: Toxicological information

11.1. Information on toxicological effects

Information hazard classes as defined in Regulation (EC) Nr. 1272/2008

Inhalation: Shal not be classified as aspiration hazard Skin contact: May cause an allergic skin reaction

Eye contact: Shall not classified as seriously damaging to the eye or eye irritant

Sensitisation: May cause an allergic reaction in sensitized individuals

Germ cell mutagenicity: Shal not be classified as germ cell mutagenic

Carcinogenicity: Suspected of causing cancer (Contd. on page 8)



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Reproductive toxicity: Shall not be classified as reproductive toxicant

Specific target organ toxicity – single exposure: Shall not be classified as specific organ toxicant **Specific target organ toxicity – repeated exposure:** Causes damage to organs (respiratory system, skin)

through prolonged or repeated exposure

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Toxicological data: Not considered toxic in its solid form.

Symptoms related to the physical, chemical and toxicological characteristics:

If swallowed: data are not available data are not available data are not available data are not available

If on skin: May produce an allergic reaction.

Other information: none

11.2. Endocrine disrupting properties

Not listed

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 information available

12.3 Bio-accumulative potential

Does not significantly accumulate in organisms.

12.4 Mobility in soil

Data are not available (Contd. on page 9)



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12.5 Results of PBT and vPvB assessment

Data are not available

12.6 Endocrine disrupting properties

Not listed

12.7 Other adverse effects

Data are not available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: Stainless steel scrap should be recycled whenever possible

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: not subject to transport regulations

14.2 UN proper shipping name

Proper shipping name: Not assigned

14.3 Transport hazard class(es)

Class: None ADR/RID-Classification code: None

14.4 Packing group

Packing: Not assigned

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14.5 Environmental Hazards

Non-environmentally hazardous according to dangerous goods regulations.

14.6 Special precautions for user

There is no additional information

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterways: Not subject to ADR, RID and AND International maritime dangerous goods code (IMDG): Not subject to IMDG International civil aviation organization (ICAO-IATA/DGR): Not subject to ICAO-IATA

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

15.2 Chemical safety assessment

List of substances to authorization (REACH, Annex XIV)/SVHC - candidate list: not listed

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

The 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)

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Abbreviations:

Asp. Tox Aspiration hazard Carc. Carcinogenicity

ErC50 Concentration resulting in a 50% reduction in growth rate with 72 hrs exposure EC50 Half maximal concentration which induces a response halfway between baseline

and maximum effect

Exp. Exposure Flam. Flammable

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
SVHC Substance of very high concern
VOC Volatile organic compound

vPvB very Persistent and very Bio-accumulative WEEE Waste Electrical and Electronic Equipment

Relevant phrases

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H351 - Suspected of causing cancer

H361d - Suspected of damaging the unborn child

H372 - Causes damage to organs (respiratory system, skin) through prolonged or repeated exposure

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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