Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 05.09.2007

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1.1 Product identified
Trade name
Stock number:

CAS Number:
11106-97-1

1.2 Relevant identified uses of the substance or mixture and uses advised against.
SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com www.alfa.com

Informing department:

www.ana.com
Product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful

R40: Limited evidence of a carcinogenic effect.

Xi; Sensitising

R43: May cause sensitisation by skin contact. Information concerning particular hazards

for human and environment: Other hazards that do not result in

classification

No information known.

Not applicable

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms Signal word

Hazard statements

Precautionary statements

The substance is classified and labelled according to the CLP regulation.

The substance is classified and labelled according to the CLP regulation.
GHS07, GHS08
Warning
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/iii P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PRT. vPvB:

3.1 Substances

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

CAS# Designation:

11106-97-1 Nickel Chromium wire

SECTION 4: First aid measures

4.1 Description of first aid measures General information

After inhalation After skin contact

No special measures required.
Supply fresh air and call for doctor for safety reasons.
Seek medical treatment in case of complaints.
Generally the product does not irritate the skin.
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
In case of persistent symptoms consult doctor.

After eye contact
After swallowing
4.2 Most important symptoms and effects,

both acute and delayed
4.3 Indication of any immediate medical
attention and special treatment needed

No further relevant information available No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents 5.2 Special hazards arising from the

Use fire fighting measures that suit the environment.

substance or mixture 5.3 Advice for firefighters Protective equipment:

If this product is involved in a fire, the following can be released:

No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures 6.2 Environmental precautions:

Not required.

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

6.3 Methods and material for containment

and cleaning up: Prevention of secondary hazards:

Dispose of contaminated material as waste according to item 13.

No special measures required.

(Contd. on page 2)

Printing date 01.07.2013 Revision: 05.09.2007 Trade name Nickel Chromium wire (Contd. of page 1) See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal. 6.4 Reference to other sections SECTION 7: Handling and storage Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. 7.1 Precautions for safe handling Information about protection against explosions and fires: No special measures required. 7.2 Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and containers: No special requirements. Information about storage in one common storage facility: Further information about storage Not required. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. No further relevant information available. conditions: 7.3 Specific end use(s) SECTION 8: Exposure controls/personal protection Additional information about design of No further data; see item 7. technical systems: 8.1 Control parameters Components with critical values that require monitoring at the workplace: Chromium metal mg/m3 0.5; Not classifiable as a human carcinogen A 0.5 VA 0.5 ACGIH TLV Belgium TWA Denmark TWA Finland TWA France VME 0.01 0.5 0.5 Japan OEL Korea TLV Norea TLV 0.5 Netherlands MAC-TGG 0.5 Norway TWA 0.5 Poland TWA 0.5 Sweden NOV Sweden NGV 0.5 United Kingdom TWA 0.5 USA PEL 1 Nickel and inorganic composition mg/m3 ACGIH TLV 1.5; A5 (metal) 0.2; A1 (insoluble compounds) 0.1; A4 (soluble compounds) Austria Carcinogen Denmark TWA 0.5 Finland TWA 0.1 (skin) Carcinogen France VME 1; C3-Carcinogen Carcinogen Carcinogen (insoluble compounds) Hungary Japan OEL Korea TLV 1; 2B-Carcinogen Netherlands MAC-TGG 1; Carcinogen 1 (insoluble compounds) A 0.05 A 0.25 0.05-STEL Norway TWA Poland TWA Russia weden NGV 0.5 (dust) Switzerland MAK-W 0.5; Carcinogen United Kingdom TWA 0.1 USA PEL 1 No data Additional information: 8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals. Maintain an ergonomically appropriate working environment. Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Not required. Not required. Impervious gloves Not determined Eye protection: Body protection: Safety glasses Protective work clothing.

SECTION 9: Physical and chemical	properties	
9.1 Information on basic physical and ch General Information Appearance: Form: Colour:	emical properties Wire Silver-coloured	
Smell: Odour threshold:	Odourless Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	1400 °C Not determined Not determined	
Flash point: Inflammability (solid, gaseous)	Not applicable Fine powder: highly flammable	
		(Contd. on page 3)

(Contd. of page 2)

Printing date 01.07.2013 Revision: 05.09.2007

Trade name Nickel Chromium wire

Ignition temperature: Decomposition temperature: Not determined Not determined Self-inflammability: Not determined

Product is not explosive.

Danger of explosion: Critical values for explosion: Lower: Not determined

Not determined Not applicable. Not determined Upper: Steam pressure: Density Relative density Vapour density Not determined. Not applicable. Evaporation rate Solubility in / Miscibility with Not applicable.

Partition coefficient (n-octanol/water): Viscosity:

dynamic Not applicable. kínematic

Not applicable.
No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability

Thermal decomposition / conditions to be

avoided:

10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

Stable under recommended storage conditions. No decomposition if used and stored according to specifications.

Very fine powder: spontaneously flammable in air.
Oxidizing agents
Interhalogens

Halogens Sulfur Ammonia Metal oxide

No information known.

Insoluble Not determined.

10.6 Hazardous decomposition products:

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for

classification:

Skin irritation or corrosion: Eye irritation or corrosion:

Sensitization:

Germ cell mutagenicity: Carcinogenicity:

No effects known.

No data Powder: irritant effect Powder: irritant effect

May cause an allergic skin reaction. No effects known.

Suspected of causing cancer.

Suspected of causing cancer. EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer. IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals. NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this product. No effects known.

Reproductive toxicity:

Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single

exposure:

Aspiration hazard:

No effects known. No effects known.

No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
Additional ecological information:

General notes:

No further relevant information available. No further relevant information available. No further relevant information available.

Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT:

12.6 Other adverse effects

Not applicable. Not applicable. No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

UN-Number

ADR, IMDG, IATA None

14.2 UN proper shipping name ADR, IMDG, IATA

None

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 05.09.2007

Trade name Nickel Chromium wire (Contd. of page 3) 14.3 Transport hazard class(es) ADR, IMDG, IATA Class None Packing group ADR, IMDG, IATA None 14.5 Environmental hazards: Not applicable Not applicable 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Not applicable. Transport/Additional information: Not dangerous according to the above specifications.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical

Substances

Standard for the Uniform Scheduling of Drugs and Poisons

National regulations

Information about limitation of use:

Water hazard class:
Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical
Substances)
Substance is

Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:

Substance is not listed.

Substance is not listed.

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Substance is not listed. Substance is not listed.

Substance is not listed.

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Abbreviations and acronyms:

Department issuing data specification sheet: Health, Safety and Environmental Department.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDE: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Hamonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

DE/E-

DE/E