

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 13.07.2010

Revision: 13.07.2010

1 Identification of substance

Product details

Trade name

Nickel Chromium slug

Stock number:

42366

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG
Benzstrasse 3
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com
www.alfa-chemcat.com

Informing department:

Product safety department.

Emergency information:

Giftnotruf Universität Mainz / Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

2 Hazards identification

Hazard designation:



Xn Harmful

Information pertaining to particular dangers for man and environment

R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitisation by skin contact.

GHS label elements

**Warning**

H351 - Suspected of causing cancer.

**Warning**

H317 - May cause an allergic skin reaction.

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Response:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Storage:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Disposal:

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)

Nickel (CAS# 7440-02-0), 80%
Chromium (CAS# 7440-47-3), 20%

4 First aid measures

General information

No special measures required.

After inhalation

Seek medical treatment in case of complaints.

After skin contact

The product is not skin irritating.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

Protective equipment:

No special measures required.

6 Accidental release measures

Person-related safety precautions:

Not required.

Measures for environmental protection:

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

Measures for cleaning/collecting:

Dispose of contaminated material as waste according to item 13.

Additional information:

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

Handling

Information for safe handling:

Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.

Information about protection against explosions and fires:

No special measures required.

Storage

Requirements to be met by storerooms and containers:

No special requirements.

Information about storage in one common

storage facility:

Not required.

Further information about storage

conditions:

None.

8 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7.

Components with critical values that require monitoring at the workplace:

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GB

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Chromium metal

mg/m³

ACGIH TLV 0.5; Not classifiable as a human carcinogen

Belgium TWA 0.5

Denmark TWA 0.5

Finland TWA 0.01

France VME 0.5

Japan OEL 0.5

Korea TLV 0.5

Netherlands MAC-TGG 0.5

Norway TWA 0.5

Poland TWA 0.5

Sweden NGV 0.5

United Kingdom TWA 0.5

USA PEL 1

Nickel and inorganic compounds, as Ni

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

Germany Carcinogen

Hungary 0.005-STEL; Carcinogen (insoluble compounds)

Japan OEL 1; 2B-Carcinogen

Korea TLV 1.5

Netherlands MAC-TGG 1; Carcinogen

1 (insoluble compounds)

Poland TWA 0.25

Russia 0.05-STEL

Sweden NGV 0.5 (dust)

Switzerland MAK-W 0.5; Carcinogen

United Kingdom TWA 0.1

USA PEL 1

No data

Additional information:**Personal protective equipment****General protective and hygienic measures****Breathing equipment:****Protection of hands:****Eye protection:****Body protection:**

The usual precautionary measures should be adhered to in handling the chemicals.

Not required.

Not required.

Safety glasses

Protective work clothing.

9 Physical and chemical properties:**General Information**

Form: Slug
Colour: Silver-coloured
Smell: Odourless

Change in condition

Melting point/Melting range: 1400°C
Boiling point/Boiling range: Not determined
Sublimation temperature / start: Not determined

Flash point: Not applicable**Inflammability (solid, gaseous)** Fine powder: highly flammable**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Danger of explosion:** Product is not explosive.**Critical values for explosion:**

Lower: Not determined
Upper: Not determined

Steam pressure: Not determined**Density** Not determined**Solubility in / Miscibility with****Water:** Insoluble**10 Stability and reactivity****Thermal decomposition / conditions to be****avoided:**

No decomposition if used and stored according to specifications.

Materials to be avoided:

Acids
 Oxidizing agents
 Interhalogens
 Halogens
 Sulfur
 Ammonia

Dangerous reactions:

Very fine powder: spontaneously flammable in air.

Dangerous products of decomposition:

Metal oxide

11 Toxicological information**Acute toxicity:****Primary irritant effect:****on the skin:****on the eye:****Sensitization:****Additional toxicological information:**

Powder: irritant effect

Powder: irritant effect

Sensitization possible by skin contact.

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

EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer.

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Sensitisation	IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals.	
	NTP-2: 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.	
	May cause sensitisation by skin contact.	

12 Ecological information:

Additional ecological information:
General notes:

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

13 Disposal considerations

Product:
Recommendation

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

Uncleaned packagings:
Recommendation:

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:

None

Maritime transport IMDG/GGVSea:
IMDG/GGVSea Class:
Marine pollutant:

None
 No

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class:

None

Transport/Additional information:

Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of product:



Xn Harmful

Risk phrases:

40 Limited evidence of a carcinogenic effect.
 43 May cause sensitisation by skin contact.

Safety phrases:

22 Do not breathe dust.
 36 Wear suitable protective clothing.

National regulations

Information about limitation of use:

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

Water hazard class:

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

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.

Contact: Zachariah Holt

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)