

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 14.07.2010

Revision: 14.07.2010

1 Identification of substance

Product details

Trade name

Sponge Nickel, A-7000, promoted with 2% Molybdenum

Stock number:

44868

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
F Highly flammable

Information pertaining to particular dangers for man and environment

R 11 Highly flammable.
R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitisation by skin contact.

GHS label elements

**Danger**H228 - Flammable solid.
H251 - Self-heating: may catch fire.**Warning**

H351 - Suspected of causing cancer.

**Warning**H317 - May cause an allergic skin reaction.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Prevention:

Response:

Storage:

Disposal:

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)

Nickel (CAS# 7440-02-0): 85-90%
Aluminum (CAS# 7429-90-5): 7-12%
Molybdenum (CAS# 7439-98-7): 1-3%
Water (CAS# 7732-18-5): Balance

4 First aid measures

After inhalation

Supply fresh air and call for doctor for safety reasons.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Seek immediate medical advice.
Instantly wash with water and soap and rinse thoroughly.

After eye contact

Seek immediate medical advice.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.

Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water.

Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire:
Toxic metal oxide smoke
Wear self-contained breathing apparatus.
Wear full protective suit.

Protective equipment:

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Ensure adequate ventilation
Keep away from ignition sources
Do not allow material to be released to the environment without proper governmental permits.
Dispose of contaminated material as waste according to item 13.

Measures for cleaning/collecting:

Ensure adequate ventilation.
Keep away from ignition sources.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Additional information:

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.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Storage

Requirements to be met by storerooms and containers:

Store in cool location.

Information about storage in one common storage facility:

Store away from oxidizing agents.
Store away from air.

Further information about storage conditions:

Keep container tightly sealed.

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Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require monitoring at the workplace:Molybdenum and compounds (as Mo)
mg/m³

ACGIH TLV 10(Mo)
 Austria MAK 15(Mo)
 Denmark TWA 10(Mo)
 Finland TWA 5(Mo)
 Germany MAK 15(Mo)
 Korea TLV 10(Mo)
 Poland TWA 4(Mo); 10(Mo)-STEL
 Sweden NGV 10(Mo)(total dust); 5(Mo)(resp. dust)
 Switzerland MAK-W 10(Mo)
 United Kingdom TWA 10(Mo); 20(Mo)-STEL
 OSHA PEL 15(Mo)(total dust)

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**

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

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Use breathing protection with high concentrations.

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Safety glasses

Face protection

Protective work clothing.

Breathing equipment:**Protection of hands:****Material of gloves****Eye protection:****Body protection:****9 Physical and chemical properties:****General Information**

Form: Suspension
 In water
Smell: Odourless

Change in condition
Melting point/Melting range: 1133-1330°C
Boiling point/Boiling range: Not determined
Sublimation temperature / start: Not determined

Flash point: Not applicable**Inflammability (solid, gaseous)** Highly flammable.**Ignition temperature:** Not determined**Decomposition temperature:** Not determined

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:

Oxidizing agents

Air

Dangerous reactions:

No dangerous reactions known

Dangerous products of decomposition:

Toxic metal oxide smoke

11 Toxicological information**Acute toxicity:****Primary irritant effect: on the skin:**

Irritant for skin and mucous membranes.

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on the eye:
Sensitization:
Additional toxicological information:

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.
 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 A5: Not suspected as a human carcinogen: Not suspected as a human carcinogen on the basis of properly conducted epidemiologic studies in humans. Studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dose, and adequate statistical power to conclude that exposure to the agent does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data.
 May cause sensitisation by skin contact.

Sensitisation**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: 4.2 (S4) Substances liable to spontaneous combustion.
Kemler Number: 40
UN-Number: 1378
Packaging group: II
Label: 4.2
Designation of goods: 1378 METAL CATALYST, WETTED (Sponge Nickel, A-7063, promoted with 1% Molybdenum)
Limited quantities (LQ): LQ0
Transport category: 2
Tunnel restriction code: D/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 4.2
UN Number: 1378
Label: 4.2
Packaging group: II
Marine pollutant: No
Correct technical name: METAL CATALYST, WETTED

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 4.2
UN/ID Number: 1378
Label: 4.2
Packaging group: II
Correct technical name: METAL CATALYST, WETTED

UN "Model Regulation":

UN1378, METAL CATALYST, WETTED, 4.2, II

15 Regulatory information**Designation according to EC guidelines:**

Code letter and hazard designation of product:



Xn Harmful
 F+ Highly flammable

Risk phrases:

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

Safety phrases:

36/37 Wear suitable protective clothing and gloves.

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

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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)

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