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

Revision: 23.02.2010 Printing date 01.07.2013 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name Nickel(II) octanoate in mineral spirits Stock number: CAS Number: 39479 4995-91-9 028-028-00-9 Index number .2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development 1.3 Details of the supplier of the safety data sheet Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b Manufacturer/Supplier: Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com www.alfa.com
www.alfa.com
www.alfa.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 Informing department: 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 GHS02 flame Flam. Liq. 3 H226 Flammable liquid and vapour. GHS08 health hazard Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Muta. 2 H341 Suspected of causing genetic defects. H350 Carc. 1A May cause cancer. Repr. 1A H360D May damage the unborn child. STOT RE 1 H372 Causes damage to the lung, the kidneys and the liver system through prolonged or repeated exposure. Route of exposure: GHS05 corrosion Skin Corr. 1A H314 Causes severe skin burns and eye damage. GHS09 environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. Classification according to Directive 67/548/EEC or Directive 1999/45/EC 💹 T; Toxic R45-61-48/23: May cause cancer. May cause harm to the unborn child. Toxic: danger of serious damage to health by prolonged exposure through inhalation. C; Corrosive R35: Causes severe burns. Xn; Harmful R68: Possible risk of irreversible effects. Xn; Sensitising R42/43: May cause sensitisation by inhalation and skin contact. N; Dangerous for the environment R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Flammable Information concerning particular hazards for human and environment: Other hazards that do not result in Not applicable classification No information known. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. GHS02, GHS05, GHS08, GHS09 Hazard pictograms Signal word Hazard statements Danger H226 H314 H314 Causes severe skin burns and eye damage.
H314 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H340 Suspected of causing genetic defects.
H350 May cause cancer.
H3600 May damage the unborn child.
H372 Causes damage to the lung, the kidneys and the liver system through prol H372 Causes damage to the lung, the kidneys and the liver system through prolonged or repeated exposure.
Route of exposure: Inhalative.
H410 Very toxic to aquatic life with long lasting effects.
P273 Avoid release to the environment. **Precautionary statements** P273 Avoid release to the environment.
P201 Obtain special instructions before use.
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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2.3 Other hazards Results of PBT and vPvB assessment PBT:

Not applicable. Not applicable. vPvB:

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation: 4995-91-9 Nickel(II) octanoate in mineral spirits

Identification number(s): Index number: 028-028-00-9

SECTION 4: First aid measures

4.1 Description of first aid measures

Instantly remove any clothing soiled by the product.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.
Instantly wash with water and soap and rinse thoroughly. After inhalation

After skin contact

Seek immediate medical advice

Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. After eye contact After swallowing

4.2 Most important symptoms and effects, both acute and delayed

Danger
4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. If swallowed or in case of vomiting, danger of entering the lungs.

No further relevant information available

CO2, sand, extinguishing powder. Do not use water.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents For safety reasons unsuitable extinguishing

agents
5.2 Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide Toxic metal oxide smoke

5.3 Advice for firetignte Protective equipment: .3 Advice for firefighters

Wear self-contained breathing apparatus.

Wear full protective suit.

Halocarbon extinguisher

SECTION 6: Accidental release measures

6.1 Personal precautions, protective

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation equipment and emergency procedures

Keep away from ignition sources
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. 6.2 Environmental precautions:

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

6.3 Methods and material for containment

and cleaning up:

Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Prevention of secondary hazards: 6.4 Reference to other sections

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.

Information about protection against explosions and fires:

7.3 Specific end use(s)

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and containers:

Information about storage in one common

storage facility: Further information about storage

conditions:

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.

No further relevant information available.

SECTION 8: Exposure controls/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:

Mineral spirits (stoddard solvent)

ACGIH TLV Belgium TWA Denmark TWA Ireland TWA ppm 100 100 100 100 . 100 500 Netherlands TWA USA PEL

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8.1 Control parameters
Components with critical values that require

monitoring at the workplace:

2-Ethylhexanoic acid

ACGIH TLV 5 (inhalable fraction of the aerosol/vapor)

Nickel and inorganic compounds, as Ni

Nickel and inorganic compounds, as Nimg/m3

ACGIH TLV

1.5, A5-inhalable particulate (metal)

0.2, A1-inhalable particulate (insoluble compounds)

0.1, A4-inhalable particulate (soluble compounds)

Austria

Carcinogen

Denmark TWA

Finland TWA
Finland TWA
Finland TWA
Farnce VME
Germany
Hungary
Japan
Hungary
Japan
1; 2B-Carcinogen
1; 2B-Carcinogen (insoluble compounds)
1; 2B-Carcinogen
1.5

Japan Korea TLV Korea TLV 1.5 Netherlands MAC-TGG 1; Carcinogen 1 (insoluble compounds)

Norway TWA Poland TWA 0.05 Sweden NGV 0.5 (dust)
Switzerland MAK-W 0.5; Carcinogen
United Kingdom TWA 0.1
USA PEL 1
No deta

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. 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. Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. 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.

Breathing equipment: Protection of hands:

Impervious gloves

Material of gloves

Penetration time of glove material Eye protection:

Not determined Tightly sealed safety glasses. Full face protection Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Body protection:

Appearance: Form: Colour: Liquid Green Petroleum-like Smell: Odour threshold: Not determined Not determined.

Change in condition
Melting point/Melting range:
Boiling point/Boiling range: Not determined 313-390 °C Not determined Sublimation temperature / start:

40 °C Flash point: Inflammability (solid, gaseous) Ignition temperature:
Decomposition temperature: Not determined. Not determined Not determined Not determined.

Self-inflammability:

Critical values for explosion: Lower: Upper: Not determined Not determined Steam pressure: Density at 20 °C Relative density Vapour density Not determined 0,95 g/cm³ Not determined. Not determined. Evaporation rate Solubility in / Miscibility with Not determined.

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

Viscosity: dynamic:

Not determined. Not determined.

9.2 Other information No further relevant information available

SECTION 10: Stability and reactivity

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10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be

avoided:

10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications. No dangerous reactions known Oxidizing agents Alkali metals

Not miscible or difficult to mix

Not determined.

Carbon monoxide and carbon dioxide

Toxic metal oxide smoke

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SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

LD/LC50 values that are relevant for

classification:

Skin irritation or corrosion: Eye irritation or corrosion:

Sénsitization:

No data
Causes severe skin burns.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer Germ cell mutagenicity: Carcinogenicity:

May cause cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.

NTP-K: Known to be carcinogenic: sufficient evidence from human studies.

May damage fertility or the unborn child.

Reproductive toxicity:

Specific target organ system toxicity -

repeated exposure:

Causes damage to the lung, the kidneys and the liver system through prolonged or repeated exposure. Route of exposure: Inhalative.

Specific target organ system toxicity - single

exposure:

No effects known. Aspiration hazard: 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.

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

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 Ecotoxical effects: Remark:

Very toxic for fish

Additional ecological information: General notes:

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

Do not allow material to be released to the environment without proper governmental permits. Water danger class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into soil. Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment. Very toxic for aquatic organisms

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.

UN1993

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

SECTION 1	4: Transport	information

UN-Number ADR, IMDG, IATA

14.2 UN proper shipping name

1993 FLAMMABLE LIQUID, N.O.S. (Nickel octoate/mineral spirits) FLAMMABLE LIQUID, N.O.S. (Nickel octoate/mineral spirits), MARINE POLLUTANT ADR IMDG

FLAMMABLE LIQUID, N.O.S. (Nickel octoate/mineral spirits) IATA

14.3 Transport hazard class(es)

ADR



Class

Label IMDG

3 (F1) Flammable liquids.

IATA

3 Flammable liquids.

3 Flammable liquids. Class Label

Packing group ADR, IMDG, IATA

14.5 Environmental hazards: Environmentally hazardous substance, liquid; Marine Pollutant Marine pollutant: Yes (P) Symbol (fish and tree)

14.6 Special precautions for user Warning: Flammable liquids. Kemler Number:

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Trade name Nickel(II) octanoate in mineral spirits (Contd. of page 4) 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Excepted quantities (EQ): Limited quantities (LQ) Transport category E1 5L 3 D/E Tunnel restriction code UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S. (Nickel octoate/mineral spirits), 3, III

SECTION 15: Regulatory information

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

Substance is listed.

Substances Standard for the Uniform Scheduling of Drugs and Poisons

National regulations Information about limitation of use:

Substance is not listed.

Workers should not be exposed to this hazardous material. Exceptions can be made by the authorities in

certain exceptional cases.
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning women of child-bearing age must be observed.
For use only by technically qualified individuals.

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

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 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:
Abbreviations and acronyms:

Health, Safety and Environmental Department.

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

LC50: Lethal concentration, 50 percent

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DF/F