

Zirconium Nickel Alloy Powder

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

1.1 Product identifier

Product name: Zirconium Nickel Alloy Powder
CAS Number: 11146-73-9
EC Number: 231-111-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Laboratory chemicals, Industrial & for professional use only

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
20 Clough Road, Severalls Industrial Park
Colchester, Essex, CO4 9QS
United Kingdom

Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS08	Health Hazard
Carc. 2	H351 suspected of causing cancer
STOT RE 1	H372 Causes damage to the lung, the kidneys, and the liver through prolonged or repeated exposure. Route of exposure: Inhalation
GHS07	
Skin Sens. 1	H317 May cause an allergic skin reaction.
Hazards not other classified	No information known

2.2 Label elements

The product is classified and labelled in accordance with 29 CFR 1910 (OSHA HCS)

Zirconium Nickel Alloy Powder

Pictograms



GHS07 GHS08

Signal word

Danger

Hazard Statements

H317

May cause an allergic skin reaction

H351

Suspected of causing cancer

H372

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

Precautionary Statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray

P261

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

P280

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

P363

Wash contaminated clothing before reuse

P405

Store locked up

P501

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

WHMIS classification

D2A

Very toxic material causing other toxic effects

Classification system

HMIS ratings (scale 0-4)

Health (acute effects)

=1

Flammability

=0

Physical Hazard

=0

2.3 Other hazards

Results of PBT and vPvB assessment

PBT

Not applicable

vPvB

Not applicable

Section 3: Composition/information on ingredients

Chemical characterisation:	Substances
CAS# Description:	7440-67-7 Zirconium
Identification number(s):	EC number 231-176-9
CAS# Description:	7440-02-0 Nickel
Identification number(s):	EC number 231-111-4

Section 4: First aid measures

4.1 Description of first aid measures

General information

No special measures required.

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After inhalation	Seek medical treatment in case of complaints.
After skin contact	Generally the product does not irritate the skin
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Special powder for metal fires. Do not use water

Unsuitable extinguishing media: water

5.2 Special hazards arising from the substance or mixture

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

Zirconium Oxide

Nickel/Nickel Oxides

5.3 Advice for firefighters

Special protective equipment: No special measures required

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required

6.2 Environmental precautions

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

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Prevention of secondary hazards: No special measures required

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

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Section 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

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 receptacles: No special requirements

Information about storage in one common storage facility: No information known

Further information about storage conditions: Keep container tightly sealed
Store in cool, dry conditions in well-sealed containers

Specific end use(s) No further relevant information available

Section 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls /

Appropriate engineering controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed

Maintain an ergonomically appropriate working environment

8.3 Personal protective equipment

Breathing equipment	Not required
Protection of hands	Not required
Penetration time of glove materials	Not determined
Eye protection	Safety glasses
Body protection	Protective work clothing

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: Solid in various forms
Odour	Odourless
Odour Threshold	Not determined
pH	Not applicable
Melting Point/Range	Not determined
Boiling Point/Range	Not determined
Sublimation temperature/start	Not determined

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Flammability (solid, gas)	Not determined
Ignition temperature	Not determined
Decomposition temperature	Not determined
Auto igniting	Not determined
Danger of explosion	Not determined
Explosion Limits Upper/Lower	Upper: Not determined. Lower: Not determined
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Evaporation rate	Not applicable
Partition Coefficient (n-octanol/water)	Not determined
Viscosity:	Dynamic: Not applicable, Kinematic: Not applicable
Other information	
No further relevant information available	

Section 10: Stability and Reactivity

10.1 Reactivity	No information known
10.2 Chemical Stability	Stable under recommended storage conditions Thermal decomposition/conditions to be avoided: Decomposition will not occur if used and stored according to specifications
10.3 Possibility of hazardous reactions	No dangerous reactions known
10.4 Conditions to avoid	No further relevant information available
10.5 Incompatible materials	No information known

Section 11: Toxicological Information

11.1 Toxicological effects:

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance LD/LC50 values that are relevant for classification:

No data

Skin irritation or corrosion:

Powder: Irritant effect

Eye irritation or corrosion:

Powder: Irritant effect

Sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Carcinogenicity:

Suspected cause of cancer.

IARC-2B: Possibly carcinogenic to humans: Limited evidence in humans in the absence of sufficient evidence in experimental animals.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

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Reproductive toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Specific target organ system toxicity – repeated exposure:

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

Specific target organ system toxicity – single exposure:

No effects known

Aspiration hazard:

No effects known

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Additional toxicological information:

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

Section 12: Ecological Information

12.1 Toxicity

Aquatic toxicity

No further relevant information available.

Persistence and degradability

No further relevant information available

Bioaccumulative potential

No further relevant information available

Mobility in soil

No further relevant information available

Additional ecological information:**General notes:**

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

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system

Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Other adverse effects

No further relevant information available

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

Consult local or national regulations to ensure proper disposal

Uncleaned packaging:**Recommendation:**

Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary, with cleansing agent

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Section 14: Transport Information

UN- Number	DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name	DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	DOT, ADR, ADN, IMDG, IATA	Not applicable
Packing group	DOT, IMDG, IATA	Not applicable
Environmental hazards		Not applicable
Special precautions for user		Not applicable
Transport / additional information	DOT	
Marine Pollutant (DOT)		No
UN "Model Regulation"		-

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture – National Regulations

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

Further information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this Document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.