Materials Safety Data Sheet

Erbium Nickel Alloy (Targets, Granules)

1. Product and Company Identification

Product Name: Erbium Nickel Alloy
Formula: ErNi
CAS: /
EC No.: /
Synonyms: None

Recommended Use: Laboratory chemicals, Scientific research
Uses advised against: No specific uses advised against have been identified.

Supplier: UltraPurMat Group Co., Ltd
Address: Room 307, Building 2, Tengfei Innovation Center, No38 Gaoxin 6th Road, High-tech Zone, Xi'an Shaanxi China
Tel: +86-29-88993870
Email: sales@ulpmat.com
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2. Hazards Identification

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (CLP)
The substance is not classified as hazardous

GHS Label elements, including precautionary statements
Pictogram: None.
Signal Word: None.
Hazard statement(s): None.
Precautionary Statement(s): None.

Other hazards:

3. Composition

Components	CAS	Classification (H)	Concentration
Erbium (Er)	7440-52-0	Not classified	0-100%
Nickel (Ni)	7440-02-0		0-100%

4. First Aid Procedures

Description of first aid measures

General Treatment: Seek medical attention if symptoms persist.

Inhalation: Remove victim to fresh air. Give oxygen if breathing is difficult. Seek medical attention.

Ingestion: Seek Medical Attention.

Skin: Remove any contaminated clothing. Wash affected area with mild soap and water. Seek medical attention if symptoms develop or persist.

Eyes: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms develop or persist.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting Measures

Extinguishing Media: Use Class D dry powder extinguishing agent.

Unsuitable extinguishing media: Water

Special hazards arising from the substance or mixture

The product is not expected to be flammable under normal conditions of use. In the event of a fire, thermal decomposition may produce erbium oxides, nickel oxides, and other irritating fumes.

Advice for firefighters

Wear a pressure-demand, self-contained breathing apparatus (MSHA/NIOSH-approved or equivalent) and full protective gear. Fight the fire from a safe distance with adequate protection, prevent firefighting water from entering drains or watercourses, and collect contaminated firefighting water separately.

Further information

No data available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Use personal protective equipment as required. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust or fume.

Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Methods and materials for containment and cleaning up

Cover drains and collect the spilled material mechanically by sweeping or scooping it up, taking care to avoid dust formation. Place the material in suitable containers for disposal and ventilate the affected area.

Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

7. Handling and Storage

Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid formation of dust. Do not get in eyes, on skin, or on clothing. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Storage class: Class 13.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields or chemical safety goggles conforming to the applicable requirements of EN 166, together with face protection where necessary.

Skin protection

Protective gloves (Protective gloves must comply with Regulation (EU) 2016/425 and the applicable requirements of EN ISO 374.). Wear appropriate protective gloves and clothing to prevent skin exposure. Wash hands thoroughly after handling.

Body Protection

Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Respiratory protection

No protective equipment is needed under normal use conditions. Use a NIOSH/MSHA or European Standard EN136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: Particulates filter.

Control of environmental exposure

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

9. Physical and Chemical Characteristics

Information on basic physical and chemical properties

Appearance

Form: Solid (Targets, Granules)

Colour: No data available

Odor: Odorless

pH: No data available

Melting point/range: No data available

Boiling point/range: No data available

Flash point: No data available

Evaporation rate: Not applicable - Solid

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Relative density: No data available

Water solubility: Insoluble

Partition coefficient: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: Not applicable

Other information

Molecular formula: ErNi

Molecular weight: No data available

10. Stability and reactivity

Reactivity

None known, based on information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No information available.

Conditions to avoid

Moisture.

Incompatible materials

Oxidizing agents. Halogens. Water. Acids. Acid chlorides.

Hazardous decomposition products

Erbium oxides. Nickel oxides. In the event of fire: see section 5.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: Not listed.

Reproductive toxicity

No data available

Specific target organ toxicity -single exposure

No data available.

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

Not applicable. Solid

Additional Information

This product does not contain any known or suspected endocrine disruptors.

12. Ecological Information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment.

Other adverse effects

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors.

13. Disposal Considerations

Waste treatment methods

Dispose of the material in accordance with applicable local and national regulations. Recovery or recycling should be used where feasible. Disposal should be carried out by an authorized waste management contractor. Empty containers may contain hazardous residues and must be handled appropriately.

14. Transportation Information

ADR

Not classified as dangerous goods .

IMDG

Not classified as dangerous goods .

IATA

Not classified as dangerous goods .

15. Regulatory information

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation: Not applicable

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances: Not applicable

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021: Not applicable

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

16. Other information

Revision Date:

2026-09-22

Version:

1.0

Disclaimer

The information of this safety data sheet is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.
This Safety Data Sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II.