

SAFETY DATA SHEET**Iridium powder**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 22.06.2017

Revision date 14.11.2022

1.1. Product identifier

Product name Iridium powder

CAS No. 7439-88-5

EC No. 231-095-9

Article no. IA-0, IA-1, IA-2

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

Use of the substance / mixture Production of alloys . Intermediate.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name JSC KRASTSVETMET

Office address 1 Transportny Proyezd

Postcode 660027

City Krasnoyarsk

Country Russian Federation

Telephone number +7 (391) 259-33-33 (ext. 4720)

Fax +7 (391) 259-39-42

Email product.safety@nornickel.fi

1.4. Emergency telephone number

Emergency telephone Description: 3E EH&S Mission Control Center: +44 20 35147487 / Access Code: 334656

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Substance / mixture hazardous properties The product is not classified.

2.2. Label elements

Supplemental label information The product is not classified.

2.3. Other hazards

PBT / vPvB Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents	Notes
Iridium	CAS No.: 7439-88-5 EC No.: 231-095-9		99,90 - 99,98 %	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove affected person from the immediate area. Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration. Consult a physician.
Skin contact	Wash off with soap and plenty of water. Remove soiled or soaked clothing immediately. Wash contaminated clothing before re-use.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms and effects Treat symptomatically.

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

Medical treatment No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment e.g.: Dry powder; Water spray jet; Foam;
Improper extinguishing media	Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

In the event of fire the following can be released: Metallic oxides;

5.3. Advice for firefighters

Personal protective equipment

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautionary measures

Pick up mechanically. Send in suitable containers for recovery or disposal. Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Other information

Pick up mechanically. Send in suitable containers for recovery or disposal. (Section 13)

6.4. Reference to other sections

Other instructions

See also section 8,13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep in a dry, cool place.

7.3. Specific end use(s)

Recommendations

<https://www.epmf.be/iridium/>

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

DNEL / PNEC

DNEL

Comments: No data available.

PNEC

Comments: No data available.

8.2. Exposure controls

Precautionary measures to prevent exposure

Product related measures to prevent exposure

Keep away from food, drink and animal feedingstuffs. Keep working clothes separately.

Eye / face protection

Suitable eye protection

Use eye protection. Wear full-face visor or shield.

Hand protection

Suitable gloves type

Wear protective gloves.

Skin protection

Suitable protective clothing

Wear apron or protective clothing in case of contact.

Respiratory protection

Recommended type of equipment

In the case of dust or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143).

Appropriate environmental exposure control

Environmental exposure controls

The employer shall fulfill requirements of IPPC Directive.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Powder

Colour

Grey.

Odour

No characteristic odour.

pH

Status: In delivery state
Comments: Not relevant.

Melting point / melting range

Comments: 2410-2447°C

Boiling point / boiling range

Comments: Not applicable to solids that melt >300°C.

Flash point

Comments: Not relevant.

Flammability

The product is not flammable.

Vapour pressure

Comments: Not applicable to solids that melt >300°C.

Vapour density

Comments: Not applicable. inorganic substance

Relative density

Comments: 22.65

Partition coefficient: n-octanol/
water

Comments: Not applicable. inorganic

Auto-ignition temperature

Comments: The product is not flammable.

Viscosity

Comments: Solid

Explosive properties

Not explosive

Oxidising properties

no oxidizing

9.2. Other information

Physical hazards

Particle size	Comments: Granulometry from manufacturer.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
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10.4. Conditions to avoid

Conditions to avoid	Avoid dust formation.
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10.5. Incompatible materials

Materials to avoid	Strong acids ; Oxidizing agents;
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10.6. Hazardous decomposition products

Hazardous decomposition products	Metallic oxides;
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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other information regarding health hazards

Assessment of acute toxicity, classification	Not Rated
Assessment of skin corrosion / irritation, classification	According to the classification criteria the product is not considered as being an eye irritant. According to the classification criteria the product is not considered as being a skin irritant.
General respiratory or skin sensitisation	Not Rated
Assessment of carcinogenicity, classification	Not Rated
Aspiration hazard, comments	Not applicable.

11.2 Other information

Endocrine disruption	No information available.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Not classified. No data available.
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12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not applicable.
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12.3. Bioaccumulative potential

Bioaccumulation, comments	No data available.
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12.4. Mobility in soil

Mobility	No data available.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	No data available.
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12.7. Other adverse effects

Additional ecological information	No data available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Recover and reclaim or recycle, if practical.
Appropriate methods of disposal for the contaminated packaging	Packaging that cannot be cleaned should be disposed as special waste in compliance with local and national regulations.

SECTION 14: Transport information

14.1. UN number

Comments	Not classified as dangerous in the meaning of transport regulations.
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14.2. UN proper shipping name

Comments	Not classified as dangerous in the meaning of transport regulations.
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14.3. Transport hazard class(es)

Comments	Not classified as dangerous in the meaning of transport regulations.
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14.4. Packing group

Comments	Not classified as dangerous in the meaning of transport regulations.
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14.5. Environmental hazards

Comments	Not classified as dangerous in the meaning of transport regulations.
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14.6. Special precautions for user

Special safety precautions for user	None.
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14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

Legislation and regulations	None.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Additional information	Disclaimer The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.
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Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
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