

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: Iridium

· Article number: 87870040

· Application of the substance / the preparation

Intermediate

Preparation of catalysts

Precious metal alloy for technical purposes

Coating

· Manufacturer/Supplier:

W.C. Heraeus GmbH

Chemicals Division - Chemical Products

Heraeusstr. 12-14, D-63450 Hanau

Deutschland/ Germany

· Further information obtainable from: Dr. Marcus Hannakam Tel: +49-(0)6181-353240

· Information in case of emergency:

factory security offices: +49 - (0)6181 - 35213

christian.mock@heraeus.com

2 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment: Not applicable.

3 Composition/information on ingredients

· Chemical characterization:

· CAS No. Description

7439-88-5 iridium

· Identification number(s)

· EINECS Number: 231-095-9

4 First aid measures

· General information: In case of accident or if you feel unwell, seek medical advice immediately.

· After inhalation:

After inhalation of dust or powder seek medical advice.

Supply fresh air.

· After skin contact:

Fine sized material wash off with plenty of water.

If skin irritation continues, consult a doctor.

· After eye contact:

Fine sized material in the eye rinse immediately with plenty of water (15 minutes), also under the eyelids.

Seek medical treatment.

· After swallowing:

Rinse mouth with water after swallowing of fine sized material.

If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards caused by the substance, its products of combustion or resulting gases:

Semi-finished material is not easily flammable.

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- Fine sized material is more easily flammable. Keep away from sources of ignition.
Fine sized metal shows catalytic effects and can accelerate combustion processes. Keep away from combustible material.*
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear protective equipment. Keep unprotected persons away.
Prevent formation of dust.
- **Information about fire - and explosion protection:** see chapter 5
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **Respiratory protection:** If dust or spray is present use respiratory protection filter P3.
- **Protection of hands:**
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Nitrile rubber, NBR
- **Eye protection:**
Necessarily if material in form of dust is present.



Tightly sealed goggles

- **Body protection:** Protective work clothing

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9 Physical and chemical properties**· General Information**

Form: Solid in various forms
Colour: Silver grey
Odour: Odourless

· Change in condition

Melting point/Melting range: 2425°C
Boiling point/Boiling range: 5300°C

· Flash point: Not applicable.

· Flammability (solid, gaseous): Semi-finished material is not easily flammable.

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20°C: 22.65 g/cm³

· Solubility in / Miscibility with

water: Insoluble.
Organic solvents: 0.0 %

· Solids content: 100.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Dangerous reactions** No dangerous reactions known.
- Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:**
- Primary irritant effect:**
 - on the skin:** No data available.
 - on the eye:** No data available.
- Sensitization:** No sensitizing effects known.
- Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- Ecotoxicological effects:**
- Remark:** No data available.
- General notes:** Generally not hazardous for water

13 Disposal considerations

- Product:**
- Recommendation**

Contact manufacturer for recycling information.
If residues of products are classified as waste use the legal requirements to assign the appropriate Waste Code.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**
The substance is not subject to classification according to EU lists and other sources of literature known to us.
- **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** HH-SUS