

MATERIAL SAFETY DATA SHEET
(91/155/CEE)
PAL KERAMIT 3

1. Preparation and Company Identification.

- 1.1 Chemical nature: Metal Alloy
1.2 Company: NOBIL METAL Spa
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2. Composition.

- 2.1 Substance
2.2 Compound X
2.3 Chemical characterisation.

Contains:	CAS n.	R phrases
Gold	7440-57-5	-
Palladium	7440-05-3	-
Silver	7440-22-4	-
Indium	7440-74-6	R20/21/22-36/37/38
Tin	7440-31-5	-

3. Hazards identification.

- 3.1 Indium as pure element may be harmful by inhalation, skin contact or if swallowed. It may also cause irritation of the skin, eyes and upper respiratory tract.

4. First -Aid Measures.

- 4.1 Skin contact: Wash with copious amount of water and soap. Should the irritation persist, consult a skin specialist.
4.2 Eye contact: Wash with plenty of running water.
4.3 Inhalation: Move affected person to fresh air and seek medical advice.
4.4 Ingestion: Affected person should drink plenty of water. Seek medical advice.

5. Fire-Fighting Measures.

- 5.1 Not applicable.

6. Accidental Release Measures.

- 6.1 Personal precaution: Prevent ingestion or inhalation of dust and skin or eyes contact.
6.2 Environmental precautions: Prevent contamination of soil, drains and surface waters.
6.3 Cleaning methods: Remove dust by vacuuming or wet sweeping to prevent powder dispersing in the air.

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7. Handling and storage.

- 7.1 Handling: Avoid exposure to dust and wear protective clothing when melting and grinding. Avoid skin contact with the dust. Grind and melt with adequate ventilation only. Do not eat, drink or smoke while working.
- 7.2 Storage: Use containers to dispose of the waste powder. No special precautions are required for bulk (solid) shapes, such as ingots.
- 7.3 Storage conditions: No special conditions required.

8. Exposure controls/personal protection.

- 8.1 Technical protective measures: No special safety measures required.
- 8.2 Exposure control limits: N.A.
- 8.2.1 Threshold limit value: N.D.
- 8.3 Personal protection:
- 8.3.1 Skin protection: Avoid contact with skin.
- 8.3.2 Eye protection: Protective glasses.
- 8.3.3 Avoid inhalation or ingestion of dust.

9. Physical and chemical properties.

- 9.1 Form: ingots, strips Colour: white. Odour: none.
- 9.2 Change of state: Melting point/range: 1140-1270 °C.
Boiling point: N.A.
- 9.3 Flash Point: N.A.
- 9.4 Ignition Point: N.A.
- 9.5 Explosion Limits: N.A.
- 9.6 Vapour Pressure: N.A.
- 9.7 Density: 10.8 g/cm³
- 9.8 Solubility in water: N.A.
- 9.9 pH Value: N.A.
- 9.10 Viscosity: N.A.

10. Stability and reactivity.

- 10.1 Stability: Stable
- 10.2 Conditions to avoid: None.
- 10.3 Materials to avoid: None
- 10.4 Hazardous decomposition products: None.

11. Toxicology.

- 11.1 Inhalation, skin contact or ingestion of dust may cause harm. Inhalation, skin or eye contact and ingestion may cause irritation and sensitisation in very sensitive individuals. If used according to manufacturer instructions no harmful effects are produced.

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12. Ecology.

- 12.1 Acute toxicity in fish: Not determined.
- 12.2 Bacteria toxicity: Not determined.
- 12.3 Biodegradability: Not biodegradable.
- 12.4 Do not release this product into lakes, rivers or sewerage system.

13. Disposal consideration.

- 13.1 Product: Dispose dust into containers to prevent powder dispersing in the air. Scraps are usually recycled.
- 13.2 Packaging: packaging material should be reused recycled or treated as household waste.

14. Transport.

- 14.1 No special requirement.

15. Regulation.

- 15.1 European information:
 - Risk phrases: R 20/21/22= Harmful by inhalation, skin contact and by if swallowed.
 - R 36/37/38= Irritating to eyes, respiratory tract and skin.
- 15.2 Safety phrases: S26= in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36= wear suitable protective clothing.

16. Further details.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Nobil Metal S.p.A. doesn't admit any modification of the test included in this sheet.