

MATERIAL SAFETY DATA SHEET



Erbium

Konik Industries Corporation

East Tower Rm.2113, Coastal Era Building, Shennan Road No. 12069,

NanShan District, ShenZhen, GuangDong Province, P.R.China

Tel: +86-755-86632910 Fax: +86-755-86590695

Email: info@konikindustries.com

NO.1 PRODUCT IDENTIFICATION

Product Name	Erbium	Formula	Er
CAS Number	7440-52-0	EINECS number	231-160-1
Er			

NO.2 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	1529 °C(lit.)	Boiling Point:	2868 °C(lit.)
Flash point	No data	Density	9.062 g/mL at 25 °C(lit.)
Solubility in H₂O	Insoluble	Appearance and Odor	Dark gray powder, silver solid, no odor.

NO.3 HAZARDS IDENTIFICATION

NFPA(U.S.A.): Health: 3 Flammability: 0 Reactivity: 0 Specific hazard:
Health hazard: Acute Effects: Slightly hazardous in case of skin contact, of eye contact, of ingestion, of inhalation. Chronic Effects: Repeated or prolonged exposure is not known to aggravate medical condition.
Environmental hazards : The material damage to the environment, Isolate runoff to prevent environmental pollution.

NO.4 FIRST AID MEASURES

Skin: Remove contaminated clothing from affected area, rinse with plenty of water. Get medical attention if irritation develops.
Eye: Lift eyelids, flush eyes with plenty of water for at least 15 minutes, Get medical attention if irritation develops or persists.
Inhalation: Remove victim to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Get medical attention.
Ingestion: Give enough water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

NO.5 FIRE AND EXPLOSION HAZARDS DATA

Products of combustion: Not available

Extinguishing method: Put out the flame with a carbon dioxide or dry powder extinguisher.

Special fire fighting procedures: Firefighters must wear full face, self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. Do not use water jet.

NO.6 LEAK TREATMENT

Leak treatment: Wear appropriate respiratory and protective equipment specified. Isolate spill area and provide ventilation. Take care not to raise dust.

NO.7 HANDLING AND STORAGE

Handling: keep away from heat. Avoid breathing dusts. keep away from sources of ignition. Avoid direct or prolonged contact with skin and eyes. Do not eat, drink or smoke in work area. Wash thoroughly before eating and smoking. Maintain eyewash capable of sustained flushing, safety drench shower and facilities for washing.

Storage: Store in a cool, dry place in tightly closed containers. Do not store together with oxidizer, acid, alkali. Keep a fire extinguisher available at all times.

NO.8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Safety glasses

Protective Gloves: Rubber gloves

Engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

NO.9 STABILITY AND REACTIVITY DATA

Stability	Stable	Polymerization	Will Not Occur
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Sensitive: No data

Hazardous Decomposition Products: Hydrogen gas

Conditions to Avoid: No data

Incompatibility (Materials to Avoid): Air, moisture, acids, oxidizing materials, halogens.

NO.10 WASTE DISPOSAL

Waste Disposal Method: In accordance with State and Local Waste Disposal Regulations.

NO.11 TRANSPORT INFORMATION

Identification: No data

Dot regulations: Not a dot controlled material (United States).

Special provisions for transport: keep away from heat. Avoid breathing dusts. keep away from

sources of ignition. Kept a fire extinguisher available at all times.

Developed by the Operations Department according to industry standard.