

ZINC INGOT
MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCER & SUPPLIERS DETAILS



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SECTION 2 - CHEMICAL NAME & INFORMATION ON INGREDIENTS

CHEMICAL NAME	külçe
CAS No:	740-66-6
CHEMICAL FAMILY	
HAZARDA CLASS	9
I.D. NUMBER	UN 3077
PACKING GROUP	PG III

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Symbol

	C	Corrosive	Can destroy living tissue in contact with the substances and preparations.
	Xi	Irritant	Inflammation of the skin or mucous membranes may cause other substances and preparations.

Safety Symbol

S 26	Contact with eyes, rinse immediately with plenty of water and seek medical advice.
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R-Phrases

R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 38	Irritating to skin.

SECTION 4 - HAZARDOUS COMPOSITION

Material	CAS No	App. %
Zinc metal	740-66-6	25-60

SECTION 5 - STABILITY & REACTIVITY DATA

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, excess dust generation, ignition sources, moisture, incompatible materials

Incompatibility with various substances:

Reactive with oxidizing agents, acids, alkalis. Slightly reactive to reactive with moisture. The product reacts violently with water

to emit flammable but non toxic gases.

Corrosivity: Non-corrosive in presence of glass

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Special Remarks on Reactivity:

MOISTURE SENSITIVE. Incompatible with acids, halogenated hydrocarbons, NH₄NO₃, barium oxide, Ba(NO₃)₂, Cadmium,

CS₂, chlorates, Cl₂, CrO₃, F₂, Hydroxylamine, Pb(N₃)₂, MnCl₂, HNO₃, performic acid, KClO₃, KNO₃, N₂O₂, Selenium,

NaClO₃, Na₂O₂, Sulfur, Te, water, (NH₄)₂S, As₂O₃, CS₂, CaCl₂, chlorinated rubber, catalytic metals, halocarbons, onitroanisole,

nitrobenzene, nonmetals, oxidants, paint primer base, pentacarbonoyliron, transition metal halides. seleninyl

bromide, HCl, H₂SO₄, (Mg +Ba(NO₃)₂ +BaO₂), (ethyl acetoacetate +tribromoneopentyl alcohol. Contact with Alkali

Hydroxides(Sodium Hydroxide, Potassium Hydroxide, Calcium Hydroxide, etc) results in evolution of hydrogen.

Ammonium

nitrate + zinc + water causes a violent reaction with evolution of steam and zinc oxide. A violent reaction or flaming is likely in

the reaction of chromic anhydride and zinc dust. May react vigorously or explosive with water

SECTION 6 – FIRE, FIGHTING & EXPLOSION DATA

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 460°C (860°F)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic

Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks, of heat. Flammable in presence of oxidizing materials, of acids.

Slightly flammable to flammable in presence of moisture. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in

presence of static discharge: Not available. Slightly explosive in presence of moisture.

SECTION 7 - FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention if irritation occurs

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek

medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious

person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar,

tie, belt or waistband.

Serious Ingestion: Not available.

SECTION 8 - PERSONAL PROTECTION

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.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid

inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available

SECTION 9 - HANDLING AND STORAGE

Keep the product sturdy, closed packaging in a dry place.

Do not place the cyanide and sulfur.

SECTION 10 - PHYSICAL & CHEMICAL CHARACTERISTICS

Physical state and appearance: Solid. (Powdered solid. Metal solid.)

Odor: Odorless.

Taste: Tasteless.

Molecular Weight: 65.39 g/mole

Color: Bluish-white. Grey.

pH (1% soln/water): Not applicable.

Boiling Point: 907°C (1664.6°F)

Melting Point: 419°C (786.2°F)

Critical Temperature: Not available.

Specific Gravity: 7.14 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone

SECTION 11 - DISPOSAL CONSIDERATIONS

Comply with local regulations for disposal.

SECTION 12 – TRANSPORT INFORMATION

DOT Classification:

CLASS 4.2: Spontaneously combustible substance. CLASS 4.3: Dangerous when wet material.

Special Provisions for Transport: Not available