

## \*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: Zinc, Metal, Powder, Dust

Catalog Numbers: 2-35050

Company Identification: Reagents, Inc.

4746 Sweden Road

Charlotte, NC 28273

For information, call: 800/732-8484, 704/554-7474

For emergencies, call CHEMTREC: 800-424-9300

## \*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%	EINECS#
7440-66-6	Zinc, Powder		231-175-3

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Contact with water liberates highly flammable gases. Spontaneously flammable in air. Moisture sensitive.

## Potential Health Effects

## Eye:

May cause eye irritation.

## Skin:

May cause skin irritation.

## Ingestion:

The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

## Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

## Chronic:

Not available.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

## Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin:**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Get medical aid. Wash mouth out with water.

**Inhalation:**

Remove from exposure to fresh air immediately. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable solid.

**Extinguishing Media:**

Do NOT use water directly on fire. Use dry chemical to fight fire. Use approved class D extinguishing agents or smother with dry sand, clay, or sodium bicarbonate.

Autoignition Temperature: 460 deg C ( 860.00 deg F)

Flash Point: Not available.

NFPA Rating: Not published.

Explosion Limits, Lower: Not available.

Upper: Not available.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container. Remove all sources of ignition. Use a spark-proof tool.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

**Handling:**

Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:**

Store in a cool, dry place. Store in a tightly closed container. Keep away from water.

Water free area.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low. Personal Protective Equipment.

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 .

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH approved respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Powder  
Appearance: grey  
Odor: odorless  
pH: Not available.  
Vapor Pressure: 1.3 mbar @ 478 deg C  
Viscosity: Not available.  
Boiling Point: 907 deg C @ 760.00mm Hg  
Freezing/Melting Point: 419 deg C  
Decomposition Temperature: Not available.  
Solubility: reacts with water  
Specific Gravity/Density: 7.1400g/cm<sup>3</sup>  
Molecular Formula: Zn  
Molecular Weight: 65.36

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong acids, strong bases, amines, chlorinated solvents.

Hazardous Decomposition Products:

Not available.

Hazardous Polymerization: Will not occur.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:

CAS# 7440-66-6: ZG8600000

LD50/LC50:

Not available.

Carcinogenicity:

Zinc, dust -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

For further information, contact Reagents, Inc.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT

Shipping Name: ZINC POWDER

Hazard Class: 4.3

UN Number: UN1436

Packing Group: II

IMO

Shipping Name: ZINC DUST

Hazard Class: 4.3

UN Number: 1436

Packing Group: II

IATA

Shipping Name: ZINC DUST

Hazard Class: 4.3

UN Number: 1436

Packing Group: II

RID/ADR

Shipping Name: ZINC DUST

Dangerous Goods Code: 4.3(14B)

UN Number: 1436  
Canadian TDG  
Shipping Name: ZINC DUST  
Hazard Class: 4.3(4.2)  
UN Number: UN1436

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases:

R 15 Contact with water liberates highly flammable  
gases.

R 17 Spontaneously flammable in air.

Safety Phrases:

S 7/8 Keep container tightly closed and dry.

WGK (Water Danger/Protection)

CAS# 7440-66-6: 0

Canada

CAS# 7440-66-6 is listed on Canada's DSL/NDSL List.

CAS# 7440-66-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7440-66-6: OEL-ARAB Republic of Egypt:TWA 0.1 mg/m<sup>3</sup>

US FEDERAL

TSCA

CAS# 7440-66-6 is listed on the TSCA inventory.

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: November 19, 1999 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

