



J. T. Baker Chemical Co.

222 Red School Lane Phillipsburg, N.J. 08865
24-Hour Emergency Telephone -- (201) 859-2151

Chemtrec # (800) 424-0300
National Response Center # (800) 424-8802

MATERIAL SAFETY DATA SHEET

855 -02

Effective: 06/25/86

Zinc

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Issued: 07/13/87

SECTION I - PRODUCT IDENTIFICATION

Product Name: Zinc
Formula: Zn
Formula Wt: 65.37
CAS No.: 7440-66-6
OSHA/RTECS No.: ZG8600000
Common Synonyms: Blue Powder
Product Codes: 4244, 4290, 4240, 4252, 4260, 4248, 4274, 5828, 4264, 4270

PRECAUTIONARY LABELLING

NIOSH SAF-T-DATA™ System

HEALTH	FLAMMABILITY	REACTIVITY	CONTACT
0	1	2	0
NONE	SLIGHT	MODERATE	NONE

Laboratory Protective Equipment



Precautionary Label Statements

WARNING!
CAUSES IRRITATION

During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

SECTION II - HAZARDOUS COMPONENTS

Component	%	CAS No.
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Zinc	90-100	7440-66-6
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SECTION III - PHYSICAL DATA

Boiling Point:	908°C (1666°F)	Vapor Pressure(mmHg):	1
Melting Point:	420°C (788°F)	Vapor Density(air=1):	N/A
Specific Gravity: 7.14 (H ₂ O=1)		Evaporation Rate:	N/A (Butyl Acetate=1)

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SECTION III - PHYSICAL DATA (Continued)

Solubility(H₂O): Negligible (less than 0.1 %) % Volatiles by Volume: 0

Appearance & Odor: Grey, mossy metal.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Flammable Limits: Upper - N/A % Lower - N/A %

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Usual Fire & Explosion Hazards

Reacts violently with water liberating and igniting hydrogen.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): 10 mg/m³ (ppm)

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

Effects of Overexposure

Contact with skin or eyes may cause severe irritation or burns.

Inhalation of dust may cause irritation to upper respiratory tract.

Prolonged exposure may cause dermatitis.

NOTE: Product is a solid mass; however, warnings are based on inhalation dust, mist or fume emissions that are possible during manufacturing or chemical reactions. Numerical rating is based on the solid metal.

Medical Conditions Generally Aggravated By Exposure

None Identified

Routes Of Entry

None Indicated

Emergency and First Aid Procedures

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

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before re-use.

SECTION VI - REACTIVITY DATA

Stability: Unstable

Hazardous Polymerization: Will not occur

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SECTION VI - REACTIVITY DATA (Continued)

Conditions to Avoid: moisture

Compatibles: strong acids, strong bases, strong oxidizing agents,
alkali metals, halogenated hydrocarbons

Composition Products: oxides of zinc

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge

Wear suitable protective clothing. Carefully sweep up and remove.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local
environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use adequate general or local exhaust ventilation
to keep fume or dust levels as low as possible.

Respiratory Protection: None required where adequate ventilation
conditions exist. If airborne concentration is
high, use an appropriate respirator or dust mask.

Eye/Skin Protection: Safety glasses with sideshields, proper gloves are
recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

MSDS DATATM Storage Color Code: Orange (general storage)

Special Precautions

Keep container tightly closed. Suitable for any general chemical storage
area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name	Zinc
Hazard Class	ORM-E
Labels	NONE
Reportable Quantity	1000 LBS.

International (I.M.O.)

Proper Shipping Name	Chemicals, n.o.s. (Non-regulated)
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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (Continued)

A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.

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