



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Zinc, powder**

PRODUCT NUMBER: 3877

CAS NUMBER: 7440-66-6

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H250	Catches fire spontaneously if exposed to air.
H251	Self-heating; may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.
P222	Do not allow contact with air.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231+P232	Handle under inert gas. Protect from moisture.
P273	Avoid release into the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402+P404	Store in a dry place. Store in a closed container.
P407	Maintain air gap between stacks/pallets.
P410	Protect from sunlight
P422	Store contents under inert gas.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 1 Fire: 3 Reactivity Hazard: 2

NFPA RATING:

Health: 1 Flammability: 3 Reactivity Hazard: 2 Specific Hazard: W

EYE CONTACT: Causes slight to mild irritation of the eyes.

SKIN CONTACT: Causes slight to mild irritation of the skin.

INHALATION: Irritating to the nose, mucous membranes, and respiratory tract.

INGESTION: Causes harsh metallic taste and may cause nausea and vomiting.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Zn

Molecular Weight: 65.38

CHEMICAL NAME	CAS#	%
Zinc Powder	7440-66-6	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Substance is classified as self-heating.

EXPLOSION LIMITS: Dust may form an explosive mixture with air.

EXTINGUISHING MEDIUM: Dry powder for metal fires. Do NOT use water. Contact with water liberates flammable gases.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Zinc oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Keep away from ignition sources.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable container for proper disposal. Do NOT mix with water or other incompatible materials.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols. Handle under dry protective gas. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Keep away from sources of ignition – No smoking.

SECTION 7 HANDLING AND STORAGE (Cont.)

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store under dry inert gas. This product is moisture sensitive – protect from humidity and water. This product is air sensitive – keep container tightly sealed. Spontaneously flammable in air.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Gray powder

ODOR: None

MOLECULAR WEIGHT: 65.38

BOILING POINT: 907°C

MELTING POINT: 420°C

SPECIFIC GRAVITY: 7.14 gm/ml

SOLUBILITY: Reacts with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Reacts violently with water

CONDITIONS TO AVOID: Excess heat

INCOMPATIBILITY: Acids, bases, oxidizing agents, air, water, moisture, halogens, sulfur, phosphorus, halogenated hydrocarbons, and ammonium nitrate.

DECOMPOSITION PRODUCTS: Zinc oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Administration onto the skin (human); TCLo Inhalation – Human – 124mg/m³/50M.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

RTECS: ZG8600000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Cyprinus carpio (Carp) – 450µg/L – 96h.

AQUATIC INVERTEBRATE: LC50 – Daphnia magna (Water flea) – 0.068 mg/L – 48h. Mortality NOEC – Daphnia (water flea) – 0.101-0.14 mg/L – 7d.

TERRESTRIAL: Not available

Bioaccumulation – Algae – 7d at 16°C – 5µg/L. Bioconcentration Factor (BCF) – 466

Do not allow product to reach ground water, watercourse, or sewage system. Avoid transfer to the environment. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life. Very toxic for aquatic organisms.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1436

Zinc powder

CLASS 4.3(4.2)

PG II

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Reactivity Hazard

SARA (TITLE 313): Zinc powder (pyrophoric)

CALIFORNIA PROP. 65: Not Listed

WHMIS CANADA: Class B-6: Reactive flammable material

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Zinc powder (pyrophoric)

NEW JERSEY RIGHT TO KNOW COMPONENTS: Zinc powder (pyrophoric)

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Zinc powder (pyrophoric)

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 05/15

SDS DEPT.