

SECTION 1: Identification

1.1. Identification

Product form : Substance
 Trade name : ZINC DUST COMPONENT B
 CAS-No. : 7440-66-6
 Product code : P296B
 Formula : Zn
 Synonyms : Zinc powder or Zinc dust
 BIG no : 06509

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : No data available

1.3. Details of the supplier of the safety data sheet

Crown Paint Company
 1801 W. Sheridan
 Oklahoma City, 73106 - United States
 T 1-405-232-8580

1.4. Emergency telephone number

Emergency number : In the event of an emergency involving dangerous goods:
 in Canada call CANUTEC at 613-996-6666 or *666 on a cellular phone.
 in the US call CHEMTREC at 800-424-9300 (Account Name for US is Polyglass Coatings)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS-US classification
zinc, powder or dust, less water-reactive (Main constituent)	(CAS-No.) 7440-66-6	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

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- First-aid measures after eye contact : Rinse with water. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the nasal mucous membranes. Dry/sore throat. Coughing. ON HEATING: FOLLOWING SYMPTOMS MAY APPEAR LATER: Metal fume fever. Headache. Muscular pain. Nausea. Vomiting. Feeling of weakness.
- Symptoms/effects after skin contact : Slight irritation.
- Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints. Vomiting.
- Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : D powder. Dry sand.
- Unsuitable extinguishing media : Water. Water spray. Foam.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : DIRECT FIRE HAZARD: Spontaneous heating increases the fire hazard. Contact with water liberates extremely flammable gases. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
- Explosion hazard : DIRECT EXPLOSION HAZARD: Risk of dust explosion. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".
- Reactivity : Unstabilized product: spontaneously flammable in moist air. Reacts slowly with water (moisture): release of highly flammable gases/vapours (hydrogen). Reacts with many compounds e.g.: With (some) acids/bases. With (strong) oxidizers. With (some) halogens. With organic material. With (some) metals. With (increased) risk of fire/explosion.

5.3. Advice for firefighters

- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: no water in the substance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
- Emergency procedures : Keep upwind. Mark the danger area. Prevent dust cloud formation. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed. Avoid ingress of water in the containers. Wash contaminated clothes. On contact with moisture/water: consider evacuation. In case of reactivity hazard: consider evacuation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Contact with water: measure explosive gas-air mixture concentration. Reaction: dilute combustible gas/vapour with water curtain.
- Methods for cleaning up : Stop dust cloud by covering with sand/earth. Collect the spill only if it is in a dry state. Carefully collect the spill/leftovers. Do not use compressed air for pumping over spills. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Avoid raising dust. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid contact of substance with water. Avoid prolonged and repeated contact with skin. Keep container tightly closed. Work under local exhaust/ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids. (strong) bases. metals. halogens. organic materials. water/moisture.
Storage area : Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Keep only in the original container. Meet the legal requirements.
Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing : GIVE POOR RESISTANCE: chlorinated polyethylene. PVC.
Hand protection : Gloves.
Eye protection : Safety glasses.
Skin and body protection : Protective clothing.
Respiratory protection : Dust/aerosol mask with filter type P1.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
: No data available
: No data available
Odor threshold : No data available
pH : No data available
Melting point : 420 °C
Freezing point : No data available
Boiling point : 907 °C
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : ≥ 0.5 vol %
Explosive properties : No data available
Oxidizing properties : No data available
Vapor pressure : < 0.1 hPa (20 °C)
Relative density : 7.1
Relative vapor density at 20 °C : No data available
Specific gravity / density : 7140 kg/m³
Molecular mass : 65.37 g/mol

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Solubility	: Reacts with water. Insoluble in organic solvents.
Log Pow	: No data available
Auto-ignition temperature	: > 490 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

Minimum ignition energy	: 960 mJ
VOC content (Regulatory - Less water and exempt solvents)	: Not applicable
Other properties	: May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

Unstabilized product: spontaneously flammable in moist air. Reacts slowly with water (moisture): release of highly flammable gases/vapours (hydrogen). Reacts with many compounds e.g.: With (some) acids/bases. With (strong) oxidizers. With (some) halogens. With organic material. With (some) metals. With (increased) risk of fire/explosion.

10.2. Chemical stability

Unstable on exposure to moisture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the nasal mucous membranes. Dry/sore throat. Coughing. ON HEATING: FOLLOWING SYMPTOMS MAY APPEAR LATER: Metal fume fever. Headache. Muscular pain. Nausea. Vomiting. Feeling of weakness.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after ingestion	: AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints. Vomiting.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation.

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SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : Dangerous for the environment.
Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water : Water pollutant (surface water). Toxic to fishes. Very toxic to invertebrates (Daphnia). Very toxic to algae. May cause eutrophication at very low concentration.

ZINC DUST COMPONENT B (7440-66-6)	
LC50 fish 1	2.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.068 - 0.56 mg/l (EC50; 48 h)
Threshold limit algae 1	0.0509 mg/l (EC50; 72 h)

12.2. Persistence and degradability

ZINC DUST COMPONENT B (7440-66-6)	
Persistence and degradability	Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

12.3. Bioaccumulative potential

ZINC DUST COMPONENT B (7440-66-6)	
BCF fish 1	3000 (BCF)
BCF other aquatic organisms 1	15000 (BCF)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Recycle/reuse. Remove to an authorized dump (Class I). Do not discharge into surface water.
Additional information : Can be considered as non hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated for transport

Transportation of Dangerous Goods

No additional information available

Transport by sea

- UN-No. (IMDG) : 1436
Class (IMDG) : 4.3 - Substances which, in contact with water, emit flammable gases
Subsidiary risks (IMDG) : 4.2
EmS-No. (1) : F-G
EmS-No. (2) : S-O

Air transport

- UN-No. (IATA) : 1436
Class (IATA) : 4 -
Packing group (IATA) : III - Minor Danger
Subsidiary risk (IATA) : 4.2

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SECTION 15: Regulatory information

15.1. US Federal regulations

ZINC DUST COMPONENT B (7440-66-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Not listed on SARA Section 313 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ

1000 lb

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

ZINC DUST COMPONENT B (7440-66-6)

State or local regulations

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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SDS US Endura

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