



**HARWICK**  
S T A N D A R D

*Safety Data Sheet*  
*ACCELERATOR ZDBC PWD-D*  
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## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### **PRODUCT IDENTIFIER: ACCELERATOR ZDBC PWD-D**

#### **Other means of identification**

**Chemical name:** Zinc Dibutyldithiocarbamate

**Synonyms:** ZDBC

**Recommended use and restrictions on use:** Accelerator

#### **Supplier information:**

##### **Manufactured for and supplied by:**

**Supplier:** Harwick Standard Distribution Corporation

**Supplier Address:** 60 S. Seiberling Street, Akron, OH 44305

**Contact:** Health, Safety & Environment

**Telephone:** 330-798-9300

**Website:** [www.harwickstandard.com](http://www.harwickstandard.com)

## SECTION 2 – HAZARD(S) IDENTIFICATION

#### **Classification of the substance or mixture:**

Skin Corrosion/Irritation, Category 2

Eye Damage/Irritation, Category 2A

Skin Sensitization, Category 1

Specific Target Organ Toxicity-Single Exposure (Respiratory Tract), Category 3

Combustible Dust

**OSHA Regulatory Status:** Classified as hazardous based on components.

#### **GHS Label Elements**

**Hazard symbol:**



**Signal word:** Warning

#### **Hazard statements:**

Causes skin irritation.

May cause an allergic skin reaction.



Causes serious eye irritation.  
May cause respiratory irritation.  
May form combustible dust concentrations in air.

**Precautionary Statements:**

Wear protective gloves/eye protection/face protection.  
Use only outdoors or in a well ventilated area.  
Avoid breathing dust.  
Wash hands thoroughly after handling.  
Contaminated work clothing should not be allowed out of workplace.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/attention if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
Take off contaminated clothing and wash before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical attention.  
Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazard(s) not otherwise classified (HNOC):** None known.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

**Substance/Mixture: Substance**

<u>Components Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
Zinc Dibutyldithiocarbamate	136-23-2	>97.5%

Any concentrations shown as a range is to protect confidentiality or is due to batch variation.  
Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4 – FIRST AID MEASURES**

**Inhalation:** Remove affected person to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** If swallowed, rinse mouth. Give water to drink. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. Seek medical advice.

**Skin contact:** Remove contaminated clothing and shoes immediately and wash affected areas with soap and water for at least 15 minutes. Rinse thoroughly. If skin irritation or rash develops, seek medical attention. Launder contaminated clothing before reuse.



**Eye contact:** In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and lift upper and lower eyelids occasionally to ensure thorough flushing. If irritation develops or persists, seek medical attention.

**General Advice:** In case of overexposure or if symptoms develop, seek medical attention. Show this Safety Data Sheet to the physician in attendance.

**Most important symptoms/effects, acute and delayed:**

Irritant effect on eyes, skin, and respiratory system. Exposure by ingestion, inhalation, and/or skin absorption may cause alcohol intolerance (Antabuse effect). Exposure to this material can aggravate existing alcohol consumption problems and/or pulmonary disorders. May cause sensitization by skin contact in susceptible individuals. See Section 11: Toxicological Information for more information about potential health effects resulting from exposure to this material.

**Notes to physician:** Treat symptomatically.

**Indication of immediate medical attention and special treatment needed:** No data available.

## SECTION 5 – FIRE FIGHTING MEASURES

**Suitable extinguishing method:** In case of fire, use water spray, foam, carbon dioxide (CO<sub>2</sub>) or dry chemical. Use water spray or fog to cool product in or near fire.

**Unsuitable extinguishing method:** To avoid generating combustible dusts, do NOT use water jet to fight fire.

**Specific hazards arising from chemical:** Containers may explode in a fire. Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition. Emits irritating and toxic fumes under fire conditions.

**Combustion products:** Carbon monoxide, carbon dioxide, nitrogen oxides (NO<sub>x</sub>), sulfur oxides (SO<sub>2</sub>), hydrogen cyanide (HCN), toxic zinc metal fumes.

**Special firefighting equipment and precautions for firefighters:** Avoid breathing smoke or fumes. Firefighters should wear a self-contained breathing apparatus (SCBA) operating in positive pressure mode and full protective clothing for combating fires. To avoid generating combustible dusts, do NOT use water jet to fight fire. Do not allow runoff to enter drains or waterways.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment specified. See Section 8. Unnecessary personnel should be kept clear of the area. Avoid the generation of dust. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact



with skin, eyes and/or mucous membranes. Take up any spilled product by mechanical means and place into sealed containers for proper disposal.

### Methods and materials for containment and cleaning up:

Isolate area and remove sources of friction, impact, heat, low level electrical current and RF energy. Isolate spill and patch the leak package immediately. Remove ignition sources and work with non-sparking tools. Scoop up spilled product and remove (avoid dust formation) and place into sealed container for proper disposal. DO NOT spread spilled product with water.

### Environmental precautions:

Do not allow discharge into the environment-water runoff can cause environmental damage. Do not let product enter drains. Discharge into the environment must be avoided. In the event of a spill or accidental release that cannot be contained, notify the relevant authorities in accordance with all applicable regulations.

## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid generating or breathing dust. Wash thoroughly with soap and water after handling. Wash hands before eating, chewing gum, using tobacco or using the toilet. Reclose containers of unused product. Keep containers tightly closed when not in use. Do not reuse container. Maintain good housekeeping to prevent dust accumulation. Avoid breathing dust. Use personal protective equipment (See Section 8).

**Conditions for safe storage, including any incompatibilities:** Store closed containers in a cool, dry, well-ventilated area. Avoid exposure to direct sunlight. Keep material away from heat sources. Store away from oxidizing materials.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Component	CAS-No.	Value	Occupational Exposure Limits	Regulation
Zinc Dibutyldithiocarbamate	136-23-2	TWA	3 mg/m <sup>3</sup>	US ACGIH Threshold Limit Values (TLV)
		TWA	5 mg/m <sup>3</sup> – respirable dust	US OSHA Permissible Exposure Limit (PEL)

**Appropriate engineering controls:** General, local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during use of this product. Adequate ventilation should be provided to keep dust concentration below acceptable exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations. Facilities storing or utilizing this material should be equipped with eye wash station(s) and safety shower(s).

### Individual protection measures, such as personal protective equipment:



**Eye/face protection:** Safety glasses with side shields or goggles.

**Skin/Hand protection:** Wear impervious gloves to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practices. Wash hands with soap and water.

**Body protection:** To protect the body, wear impervious clothing such as coveralls to minimize skin contact. Select protective equipment according to the concentration and amount of the dangerous substance at the specific workplace. Launder contaminated clothing before reuse.

**Respiratory protection:** Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. If dust is generated, wear NIOSH-approved dust respirator or dust mask. If vapors/dust are generated above exposure limits, use NIOSH approved full-face organic cartridge filter respirator, air supplied respirator or SCBA. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134)

**Additional Information:** Do not consume alcohol, eat or smoke while handling this product. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	White Powder (Granule)
<b>Odor:</b>	Slight
<b>Decomposition Temperature:</b>	No data available
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Boiling Point/Range:</b>	No data available
<b>Melting Point/Freezing Point:</b>	100°C (minimum)
<b>Flash Point (°C):</b>	No data available
<b>Upper/Lower Explosion Limits:</b>	Lower Explosion Limit (LEL): 20 g/m <sup>3</sup> Upper Explosion Limit (UEL): No data available
<b>Relative Density (Specific Gravity):</b>	1.24
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	Practically insoluble in water
<b>Evaporation Rate:</b>	No data available
<b>Partition Coefficient: (n-octanol/water)</b>	No data available
<b>Auto-ignition Temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Other Data:</b>	Zinc Content= 13-15%



## SECTION 10 - STABILITY & REACTIVITY

**Reactivity:** No specific test data available for this product.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions are not anticipated.

**Conditions to avoid:** Keep away from heat, sparks and flame and/or static discharge. Avoid dust accumulation. Avoid generating dust. Avoid contact with acids and oxidants.

**Incompatible materials:** Oxidizing agents. Acids.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, nitrogen oxides (NO<sub>x</sub>), sulfur oxides (SO<sub>2</sub>), hydrogen cyanide (HCN)

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Oral:** LD50 (Rat): >5000 mg/kg

**Dermal:** LD50 (Rabbit): >2,000 mg/kg

**Inhalation:** No data available

### Irritation/Corrosion:

**Skin:** Practically non-irritating

**Eyes:** Practically non-irritating

**Respiratory:** Irritating to respiratory system

### Sensitization:

May cause sensitization in susceptible individuals

### Mutagenicity:

Not mutagenic (Ames Test)

### Carcinogenicity:

2-year feeding study/rat: Not carcinogenic

18-month feeding study/mouse: Not carcinogenic.

IARC: Not listed as a human carcinogen.

NTP: Not listed as a human carcinogen.

ACGIH TLV: Not listed as a human carcinogen.

OSHA: Not listed as a human carcinogen.

NOTE: May react with nitrosating agents during rubber vulcanization to form nitrosamines. Some nitrosamines are suspected to be human carcinogens.

### Reproductive/Developmental Toxicity:

No data available



**Specific target organ toxicity-single exposure:** Respiratory tract –Exposure by inhalation causes irritation of the lungs and respiratory system.

**Specific target organ toxicity-repeated exposure:** No data available

**Potential acute health effects:**

- Eye contact:** Eye contact may result in redness and/or pain. Eye irritation may be serious.
- Inhalation:** May cause irritation of the lungs or respiratory system. Signs/symptoms of respiratory irritation may be similar to those of bronchitis. Inhalation may cause alcohol intolerance (Antabuse effect) and can aggravate existing pulmonary disorders.
- Skin contact:** Product is readily absorbed through skin. Causes skin irritation. Skin contact may result in inflammation characterized by itching, scaling, reddening and/or occasionally blistering. May cause and allergic skin reaction. Skin contact may result in sensitization in susceptible individuals. Exposure by skin absorption can cause alcohol intolerance (Antabuse effect).
- Ingestion:** May cause alcohol intolerance (Antabuse Effect). Adverse effects may include headache, dizziness, nausea, vomiting or gastrointestinal irritation.

**Potential chronic health effects:** May aggravate alcohol consumption problems and/or pulmonary disorders. This material or its emissions may cause an allergic or sensitization reactions and thereby aggravate systemic disease.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:**

- Fish:**  
LC50 (96 hr): 520 mg/L (Oncorhynchus mykiss)  
LC50 (96 hr): 880 mg/L (Lepomis macrochirus)
- Aquatic Invertebrates:**  
EC50 (48 hr): 0.74 mg/L (Daphnia magna)

**Persistence and degradability:** Not determined

**Bioaccumulative potential:** Log P = 7.04 (estimated)

**Mobility in soil:** No data available

**Other adverse effects:** Very toxic to aquatic life with long lasting effects.

## SECTION 13 - DISPOSAL CONSIDERATIONS



**Disposal instructions:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and must be treated as waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14 - TRANSPORTATION INFORMATION

**Special shipping information (DOT):** Not DOT regulated

## SECTION 15 - REGULATORY INFORMATION

**U.S.:**

**TSCA Inventory Status:** Chemical components are listed.

**Title III SARA Status:**

### **SARA Section 302-Extremely Hazardous Substance**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA Section 311 & 312-Hazardous Categories**

(Immediate) Acute health hazard, Fire

### **SARA Section 313-Toxic Chemicals**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

As "Zinc Compounds"; De Minimis concentration = 1.0%

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

## SECTION 16 - OTHER INFORMATION

**Issue date:** 06-01-2015

**Version #:** 01

**Revision Information:** GHS Format





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