



HARWICK
S T A N D A R D

Safety Data Sheet
ACCELERATOR ZDMC PWD-D
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ACCELERATOR ZDMC PWD-D

Other means of identification

Chemical name: Zinc Dimethyldithiocarbamate

Synonyms: ZDMC

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

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Acute Toxicity, Oral, Category 4

Acute Toxicity, Inhalation, Category 2

Serious Eye Damage, Category 1

Skin Sensitizer, Category 1

Specific Target Organ Toxicity-single exposure, (Respiratory system) Category 3

Specific Target Organ Toxicity-repeated exposure, Oral, Liver, Blood, Category 2

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements

Hazard symbol:



Signal word: Danger

Hazard statements:

May form combustible dust concentrations in air.



Fatal if inhaled.
Toxic if swallowed.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear respiratory protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Avoid release to the environment.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well ventilated area.
Contaminated work clothing should not be allowed out of workplace.
Get medical advice/attention if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Prevent dust accumulation.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture:

<u>Components</u>	<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
Zinc Dimethyldithiocarbamate		137-30-4	96 - 98%
White Mineral Oil		8042-47-5	1-2%



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: Seek immediate medical attention. May be fatal if inhaled. Remove affected person to fresh air. Seek immediate medical advice. If not breathing provide artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: If swallowed, contact a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin contact: Immediately wash skin with soap and water and rinse thoroughly. Remove contaminated clothing and launder before reuse. If skin irritation persists or signs of toxicity occur, seek medical attention.

Eye contact: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

General Advice: In case of overexposure or if symptoms develop, seek medical attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this Safety Data Sheet to the physician in attendance.

Most important symptoms/effects, acute and delayed:

Eye contact:	Causes mild eye irritation. Signs/symptoms can include redness, swelling, pain and tearing.
Inhalation:	May be fatal if inhaled. Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Inhalation may cause alcohol intolerance.
Skin contact:	May cause an allergic skin reaction. May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.
Ingestion:	May cause alcohol intolerance (Antabuse Effect) Signs/symptoms can include headache, dizziness, nausea, vomiting, gastrointestinal irritation.

Notes to physician: Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient. Exposure by ingestion, inhalation or skin absorption may cause alcohol intolerance (Antabuse Effect). Monitor respiratory system function. Observe for signs of respiratory distress.

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 (CO₂) or dry chemical.

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

Specific hazards arising from chemical: Fight fire from a safe distance and from a protected location.. Use water spray to cool fire exposed surfaces. Do not allow runoff to enter waterways.

Combustion products: Toxic emissions may result if product is involved in a fire.

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. 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 and remove. 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.

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: No data available.

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 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

Appearance:	Off-White Powder
Odor:	Slight
Decomposition Temperature:	No data available
Odor Threshold:	No data available
pH:	No data available
Boiling Point/Range:	No data available
Melting Point/Freezing Point:	238°C
Flash Point (°C):	No data available
Flammable/Explosion Limits:	No data available
Relative Density (Specific Gravity):	1.66 @ 20°C
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility:	Insoluble in water
Evaporation Rate:	No data available
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature:	No data available
Viscosity:	No data available
Explosive Properties:	No data available
Other Data:	Zinc Content= 20-22%

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No specific test data available for this product.

Chemical stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Avoid contact with oxidants. Hazardous polymerization will not occur.

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. Avoid generating dust. Avoid contact with acids and oxidants. Contact with acids may produce toxic gas.

Incompatible materials: Oxidizing agents. Acids. Contact with acids may produce toxic gas.

Hazardous decomposition products: Carbon monoxide. Oxides of nitrogen. Oxides of sulfur. Toxic zinc metal fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION



Acute Toxicity

Oral: LD50 (Wild Bird): 100 mg/kg
LD50 (Guinea Pig): 200 mg/kg
LD50 (Rat): 320 mg/kg
Dermal: LD50 (Rabbit): 2,000 mg/kg
Inhalation: LC50 (Mouse) 2h: 1056 mg/m³
LC50 (Rat) 2h: 26 mg/m³

Irritation/Corrosion:

Skin: Skin irritation (Rabbit, 4 hours)
Result: No skin irritation
Eyes: (Eyes/Rabbit)
Result: Risk of serious damage to eyes.
Respiratory: No data available

Sensitization:

Skin: In vivo assay – Guinea pig
Result: May cause sensitization by skin contact.
Respiratory: No data available

Mutagenicity:

Mouse
Lymphocyte
Mutation in mammalian somatic cells.

Carcinogenicity:

Both negative and positive results in standard tests using animals, animal bacterial cells.

IARC: Group 3: Not classifiable as to its carcinogenicity to humans (Ziram).

May react with nitrosating agents during rubber vulcanization to form nitrosamines. Some nitrosamines are suspect human carcinogens.

Reproductive/Developmental

Toxicity: Animal studies have shown adverse effects in both males and females.

Specific target organ toxicity-single exposure:

Inhalation-May cause respiratory irritation-
Respiratory tract

Specific target organ toxicity-repeated exposure:

Oral-May cause damage to organs through
prolonged or repeated exposure (Liver, Blood)

Information on likely routes of exposure:

Routes of entry: Inhalation, Dermal-Skin

Potential acute health effects:



Eye contact:	Causes mild eye irritation.
Inhalation:	May be fatal if inhaled. Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Inhalation may cause alcohol intolerance.
Skin contact:	May cause an allergic skin reaction. May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.
Ingestion:	May cause alcohol intolerance (Antabuse Effect)

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	Signs/symptoms can include coughing.
Skin Contact:	Signs/symptoms can include irritation, redness.
Eye Contact:	Signs/symptoms can include redness, swelling, pain and tearing.
Ingestion:	Signs/symptoms can include headache, dizziness, nausea, vomiting, gastrointestinal irritation.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Long term exposure:

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Potential chronic health effects: Not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Component

Tetramethyl thiuram disulfide

Fish: LC50 (5 hr): 5.0 mg/L (Goldfish)
LC50 (96 hr): 1.20 mg/L (Blue Gill)
LC50 (96 hr): 0.75 mg/L (Rainbow Trout)
Crustaceans: EC50 (48 hr): 0.23 mg/L (Daphnia magna)
Algae: No information available.

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: No data available

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):

UN 2811, Toxic Solid, Organic, N.O.S. (Zinc Dimethyldithiocarbamate), 6.1, I

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Chemical components are listed or exempt.

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, (Delayed) Chronic health hazard

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.

RCRA status

The following chemical components are listed under (40 CFR 261): P205 ACUTELY HAZARDOUS WASTE



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SECTION 16 - OTHER INFORMATION

Issue date: 12-11-2015

Version #: 01

Revision Information: GHS Format

HMIS Ratings: Health: 4 Fire: 1 Reactivity: 0

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