

(in compliance with 29 CFR 1910.1200)

Health, Safety & Environment

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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ACCELERATOR DTDM PWD-D/CR

Preparer:

Manufactured for and supplied by: Telephone no: (330) 798-9300

Harwick Standard Distribution Corporation Date prepared: August 25, 2010

60 South Seiberling Street

P.O. Box 9360

Akron, OH 44305-0360 Product use: Accelerator

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS Components LD_{50} (mg/kg) LC_{50} (mg/kg) **Chemical Identity CAS Number** of Ingredient of Ingredient % 4,4'-Dithiodimorpholine 103-34-4 Oral/rat 5600 mg/kg >96 Hydrotreated light napthenic 64742-52-5 <2 distillate, petroleum* *Oiled powder form only

SECTION 3 - HAZARD(S) IDENTIFICATION

Primary routes of exposure:

Inhalation ☑ Skin contact ☑ Eye contact ☑ Skin absorption □ Ingestion ☑

Emergency Overview: WARNING! Combustible dust-explosion potential. Keep away from heat, sparks, and flame. This material is irritating to skin, eyes and respiratory tract.

Potential Health Effects: This material is irritating to skin, eyes, and respiratory tract. Prolonged skin contact can cause skin irritation, skin sensitization or allergic skin reaction.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, seek immediate medical attention.

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



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Skin contact: Remove contaminated clothing. Wash skin with water, using soap if available. Launder clothing before reuse. Seek medical attention if irritation persists

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and seek medical attention if irritation persists.

Notes to Physician: Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient. Observe for signs of respiratory distress.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point (method): 309°F (COC)

Extinguishing media: Water spray, carbon dioxide, foam, dry chemical.

Special fire fighting procedures: Fight fire from a safe distance and from a protected location. Flammable dust when finely divided and highly suspended state. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.

Unusual fire and explosion hazards: Toxic emissions may result if product is involved in a fire. Fire produces highly toxic sulfur dioxide gas. Avoid ignition sources such as sparks and flame.

Hazardous combustion products: Carbon monoxide, nitrogen oxide, sulfur dioxide gases and morpholine vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak & Spill Procedure: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak if possible with being safe. Remove ignition sources and work with non-sparking tools. Scoop up and remove. Do NOT spread spilled product with water. Wear protective equipment specified. Avoid generation of dust. Scoop and place into container for disposal. Keep container closed.

SECTION 7 - HANDLING AND STORAGE

Handling: Good hygienic practices should be observed. Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded with material. Prevent dust accumulation. Avoid generating or breathing dust. Avoid contact with eyes, skin and clothing. Close containers of unused product. Wash hands before eating, drinking and chewing gum, using tobacco or suing the toilet. Do not reuse this container.

Storage: Store closed containers in a cool, dry, well-ventilated area. Avoid ignition sources such as sparks and flame. Store away from strong oxidizing materials. Avoid exposure to direct sunlight. Do not store near Crystex Insoluble Sulfur. Slowly degrades and releases irritating vapors under warm, humid conditions.



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

4,4'-Dithiodimorpholine:

OSHA PEL/8 hr TWA: 15 mg/m³ (total dust) – 5 mg/m³ (respirable dust)

ACGIH TLV/8 hr TWA: 10 mg/m³

Morpholine:

OSHA PEL/8 hr TWA: 20 ppm
NIOSH REL/8 Hr TWA: 30 ppm
ACGIH TLV/8 hr TWA: 20 ppm skin

Respiratory protection (specify type): A NIOSH/MSHA approved respirator above PEL or TLV, and/or an organic vapor respirator for vapors or mists.

Ventilation: Local exhaust: Recommended to minimize exposure.

Mechanical (general): Recommended to minimize exposure.

Protective gloves: Impervious

Eye protection: Chemical goggles

Skin protection: Normal work coveralls. Launder contaminated clothing before reuse.

Other protective clothing or equipment: Not available

Work/hygienic practices: Not available

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES								
Boiling point:	Not determined	Specific gravity:	1.36 @ 25°C					
Freezing point:	Not determined	pH:	Not determined					
Melting point:	120-131∘C	Molecular weight:	236.4					
Vapor pressure (mm Hg):	Negligible	Odor threshold (ppm):	Not determined					
Vapor density (AIR=1):	Not determined	Coefficient of water/oil distribution:	Not determined					
Solubility in water:	0.0082 g/100ml	Evaporation rate:	Not determined					
Appearance (physical state):	Cream to off-white powder or crystalline powder	Odor:	Slight amine					



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SECTION 10 - STABILITY & REACTIVITY									
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_	amounts of wat	-				. Avoid Contain	illiation of pro-	uuct	
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	th reducing age						.,		
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SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity:

Acute Fish Toxicity: 96Hr LC50 Rainbow Trout = 1.8 mg/l

96Hr LC50 Bluegill Sunfish = 1.6 mg/l 96Hr LC50 Fathead Minnow = 3.5 mg/l 48Hr LC50 Daphnia Magna= 4.5 mg/l

96Hr EC50 Algae = 29.0 mg/l

Octanol/Water Coefficient: 310

Chemical Fate Information: Bioconcentration Factor: 29 (calculated).

Aqueous Photolysis: T(1/2) = 3 hrs.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal method: In accordance with federal, state, and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Special shipping information: Not DOT regulated

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status:

Chemical components are listed on the TSCA inventory.

SARA 313

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: None known

SARA Sections 311 & 312

Superfund Amendments & Reauthorization Act of 1986 Title III: Immediate, delayed, fire

RCRA status

The following chemical components are listed under (40 CFR 261): None known

FDA Status 21 CFR: Regulated for Use under the following 21 CFR sections:

177.2600 - Rubber Articles Intended for Repeated Contact with Food

175.105 - Components of Adhesives

HMIS Classification: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

SECTION 16 - OTHER INFORMATION