



HARWICK
S T A N D A R D

Safety Data Sheet
ACCELERATOR MBD GRS
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ACCELERATOR MBD GRS

Other means of identification

Chemical name: 4-morpholinyle-2-benzothiazole disulfide

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:

Eye Damage/Irritation, Category 2A

Sensitization-Skin, Category 1B

Aquatic Hazard-Long Term, Category 1

Aquatic Hazard-Acute, Category 1

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements

Hazard symbol:



Signal word: Warning

Hazard statements:

Causes serious eye irritation.

May cause allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements:



Wash exposed areas thoroughly after handling.

Wear eye protection.

Avoid breathing dust/fumes/vapors.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

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 advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Avoid release into the environment.

Collect spillage.

Dispose of contents and/or container to a licensed waste disposal facility in accordance with local, regional, and national regulations.

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

<u>Components</u>	<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
	4-morpholinyle-2-benzothiazole disulfide	95-32-9	>99%

Any concentrations shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove affected person to fresh air. If not breathing provide artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if irritation develops or persists.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If discomfort develops or persists, seek medical attention.

Skin contact: Remove contaminated clothing or shoes. Wash affected areas of skin with soap and plenty of running water. If irritation develops or persists, seek medical attention. Launder contaminated clothing and clean shoes thoroughly before reuse.

Eye contact: Irrigate eye(s) with water for 15 minutes. Remove contact lenses and lift upper and lower eyelids occasionally to ensure thorough flushing. Seek medical attention if irritation develops or persists.



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:	Irritating to eyes.
Inhalation:	Exposure to airborne particles may cause irritation of the nose, throat and lungs.
Skin contact:	May cause sensitization by skin contact.
Ingestion:	Exposure to airborne particles may cause irritation of the nose, throat and lungs.

Notes to physician: Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Indication of immediate medical attention and special treatment needed: Specific treatments in any case must be based on the physician's judgment and in response to the patient's reactions.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use carbon dioxide (CO₂), dry chemical, foam or water fog.

Unsuitable extinguishing method: Do NOT use water jet to fight fires involving this material.

Specific hazards arising from chemical: May emit irritating and toxic gases under fire conditions. Airborne dust may form explosive mixtures with air. Do not allow runoff to enter drains or waterways.

Combustion products: Carbon oxides, nitrogen oxides, sulfur oxides, metal oxides and/or Morpholine.

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. Dike fire-control water for later disposal. Do not allow runoff to enter drains or waterways.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe



SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid generating or breathing dust. Ensure adequate ventilation. Remove potential ignition sources from the spill area. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment (See Section VIII). Take precautions against static discharges. Work with clean, non-sparking tools. Unnecessary personnel should be kept clear of the area.

Methods and materials for containment and cleaning up:

Eliminate all sources of ignition. Stop leak or spill if safe to do so. Take up any spilled product by mechanical means (avoid dust formation). If material is contaminated, placed into sealed containers for proper disposal. Dispose of water materials, including empty product bags or drums, in accordance with local, state and federal regulations. Clean surfaces thoroughly to prevent residual contamination. Do not allow runoff to enter drains or waterways.

Environmental precautions:

Do not allow discharge into the environment-water runoff can cause environmental damage. 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 generating or breathing dust. Maintain good housekeeping to prevent dust accumulation. Avoid contact with skin, eyes and clothing. Observe good industrial hygiene practice for chemical handling. Wear appropriate personal protective equipment (See Section VIII).

Conditions for safe storage, including any incompatibilities: Store in cool (<35°C), dry (<50% relative humidity) conditions. Keep container tightly closed in a well-ventilated area. Avoid dust formation. Avoid sources of ignition (including electrostatic discharge). Store away from oxidizing agents. Prolonged storage above 110°F will initiate chemical changes resulting in a loss of purity.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No exposure limit value known.

Appropriate engineering controls: Local exhaust recommended when generating excessive levels of airborne particles. Use sufficient ventilation to keep employee exposure below recommended 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.



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.

Respiratory protection: 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)

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Cream to yellowish solid granule
Odor:	No data available
Decomposition Temperature:	No data available
Odor Threshold:	No data available
pH:	No data available
Boiling Point/Range:	No data available
Melting Point/Freezing Point:	Minimum Initial melting point: 123°C (253°F)
Flash Point (°C):	No data available
Flammable/Explosion Limits:	No data available
Relative Density (Specific Gravity):	1.51
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility:	Insoluble in cold 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

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No specific test data available for this product.

Chemical stability: Material is stable under recommended storage conditions. No hazardous polymerization.



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

Conditions to avoid: Avoid generating dust. Avoid excessive heat and exposure to potential ignition sources such as sparks, open flame and/or static discharge.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Combustion/thermal decomposition may produce sulfur oxides, nitrogen oxides, carbon oxides and/or morpholine.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral: LD50 (Rat): 11,500 mg/kg

Potential Acute Health Effects:

Eye Contact: Irritating to eyes. Symptoms may include irritation, watering and redness.

Skin Contact: Contact with dust can cause mechanical irritation and/or drying of the skin. May cause skin sensitization by contact. Symptoms may include irritation and redness.

Ingestion: No known significant effects or critical hazards.

Inhalation: May cause respiratory irritation. Symptoms may include respiratory tract irritation and coughing.

Potential Chronic Health Effects: Repeated or prolonged inhalation of dust may cause chronic respiratory irritation. Once sensitized, skin contact with product (even with very low level) may produce a severe allergic reaction.

Skin Sensitization: Guinea Pig-sensitizing

Target Organ Effects: No data available

Germ cell Mutagenicity: No data available

Reproductive/Developmental Toxicity: No data available

Carcinogenicity: IARC: Not listed as a human carcinogen.

NTP: Not listed as a human carcinogen.

ACGIS TLV: Not listed as a human carcinogen.

OSHA: Not listed as a human carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Fish: LC50 (96 hr): 0.49 mg/L (*Oryzias latipes*)
Crustacea: EC50 (48 hr): 0.58 mg/L (*Daphnia magna*)



Algae: EC50 (72 hr): 0.81 mg/L (Selenastrum capricornutum)

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

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. 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

U.S. DOT: Not regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: This product is listed on the Toxic Substances Control Act Inventory.

Title III SARA Status

SARA Section 302-Extremely Hazardous Substance Not regulated

SARA Section 311 & 312-Hazardous Categories

SARA Section 313-Toxic Chemicals Not regulated

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: 05-11-2015

Version #: 01

Revision Information: GHS Format



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