



HARWICK
S T A N D A R D

Safety Data Sheet
ACCELERATOR CBS GRS
ACCELERATOR CBS GR HH
ACCELERATOR CBS GR SX
ACCELERATOR CBS PWD-D
ACCELERATOR CBS PWD-D HH
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ACCELERATOR CBS GRS/GR HH/GR SX/PWD-D/PWD-D HH/PWD-D SX

Other means of identification

Chemical name: N-Cyclohexyl-2-benzothiazolesulfenamide

Synonyms: 2-benzothiazolesulfenamide, CBS

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:

Skin Sensitization, Category 1

Combustible Dust

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements

Hazard symbol:



Signal word: Warning

Hazard statements:

May cause allergic skin reaction.

May form combustible dust concentrations in air.



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Precautionary Statements:

Avoid breathing dust/fumes/vapors.

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

Avoid release to the environment.

Wear protective gloves.

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

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

Wash contaminated clothing before reuse.

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:

<u>Components Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
N-Cyclohexyl-2-benzothiazolesulfenamide	95-33-0	93 - 99%
White Mineral Oil (Oiled powders only)	8042-47-5	0 - 2.5%
2-Mercaptobenzothiazole	149-30-4	0 - 1%
Cyclohexylamine	108-91-8	0 - 0.5%
Mercaptobenzothiazole Disulfide	120-78-5	0 - 1%
Benzothiazole	95-16-9	0 - 0.5%

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, contact 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 and launder before reuse. Wash skin with soap and water. Get medical attention if irritation persists.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation 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:** May cause mild eye irritation. Signs/symptoms can include redness, swelling, pain and tearing.
- Inhalation:** May cause mild respiratory irritation. May irritate mouth, nose and throat. Signs/symptoms of upper respiratory irritation can include soreness of the nose and throat, coughing and sneezing.
- Skin contact:** May cause mild skin irritation. Signs/symptoms can include redness, swelling and itching. May cause an allergic skin reaction.
- Ingestion:** Illness may occur after a single swallowing of relatively large quantities of this material.

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.

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 water spray (fog), foam, carbon dioxide (CO₂) or dry powder.

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



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Specific hazards arising from chemical: Fight fire from a safe distance and from a protected location. Flammable dust when in finely divided and highly suspended state. 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. Fire produces carbon monoxide and carbon dioxide gases.

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.

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:

Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum or shovel and place into closable container for 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. DO NOT spread spilled product with water.

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



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Precautions for safe handling: Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Avoid generating or breathing dust. Avoid contact with eyes, skin and clothing. Reclose containers of unused product. Wash hands before eating, chewing gum, using tobacco or using the toilet.

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 strong oxidizing materials. Do not store near Insoluble sulfur. Slowly degrades and releases irritating vapors under warm, humid conditions.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Component

Exposure Limits

Cyclohexylamine

ACGIH TLV/8Hr TWA = 10 ppm

NIOSH REL/8Hr TWA = 10 ppm

Nuisance Dust.

OSHA PEL/8Hr-TWA = 15/mg/m³ (Total Dust)

OSHA PEL/8Hr-TWA = 5/mg/m³ (Respirable Dust)

ACGIH TLV/8Hr TWA = 10 mg/m³

White Mineral Oil.

OSHA PEL/8Hr-TWA = 5/mg/m³

ACGIH TLV/8Hr TWA = 5 mg/m³

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

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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)

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	White to Off-white Granules or Dedusted Powder
Odor:	Mild Amine
Decomposition Temperature:	No data available
Odor Threshold:	No data available
pH:	No data available
Boiling Point/Range:	Decomposes before boiling.
Melting Point/Freezing Point:	97-105°C
Flash Point (°C):	177°C (350°F)
Flammable/Explosion Limits:	No data available
Relative Density (Specific Gravity):	1.3 @25°C
Vapor Pressure:	Negligible
Vapor Density:	No data available
Solubility:	Insoluble, < 1ppm @21°C
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.



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Chemical stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Loses potency with time. Protect from moisture. 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 excessive heat. Avoid contact with strong oxidants.

Incompatible materials: Strong oxidizing agents. Strong acids. Avoid contamination of product with water. Do not store near Insoluble Sulfur (Amine vapors can cause insoluble sulfur to revert to soluble form).

Hazardous decomposition products: Carbon monoxide. Oxides of nitrogen. Oxides of sulfur. Amines.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral: LD50 (Rat): 5,300 mg/kg

Dermal: LD50 (Rabbit): >7,940 mg/kg

Irritation/Corrosion:

Skin: Slight irritant effect on skin and mucous membranes.

Eyes: Slight irritant effect on eyes.

Respiratory: No data available

Sensitization:

Skin: Sensitization possible through skin contact.
Sensitizing effect through inhalation is possible by prolonged exposure.
Similar compounds have at least some potential for allergic skin reaction in humans after prolonged and repeat exposures.

Respiratory: No data available

Mutagenicity:

No data available

Carcinogenicity:

Negative in standard tests using bacteria and yeast cells.
No component of this product present at levels greater than or equal to 0.1% is identified by the IARC, ACGIH, NTP or OSHA as a carcinogen or suspected carcinogen.

Reproductive toxicity:

No data available



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Teratogenicity: No evidence of teratogenicity in animal studies using rats, mice and or/hamsters.

Specific target organ toxicity-single exposure: No data available

Specific target organ toxicity-repeated exposure: No data available

Information on likely routes of exposure: Routes of entry: Eyes, Inhalation, Dermal-Skin

Potential acute health effects:

Eye contact: May cause mild eye irritation.
Inhalation: May cause mild respiratory irritation. May irritate mouth, nose and throat.
Skin contact: May cause mild skin irritation. May cause an allergic skin reaction.
Ingestion: Illness may occur after a single swallowing of relatively large quantities of this material.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: Signs/symptoms can include of upper respiratory irritation can include soreness of the nose and throat, coughing and sneezing.
Skin Contact: Signs/symptoms can include redness, swelling and itching.
Eye Contact: Signs/symptoms can include redness, swelling, pain and tearing.
Ingestion: No specific data.

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: Pulmonary disorders. Dermal ailments. Eye, skin, respiratory, blood, liver and/or kidney ailments. This material or its emissions may cause an allergic or sensitization reaction and thereby, aggravated systemic disease.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:



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Component

Fish: LC50 (96 hr): 5.4 mg/L (Rainbow Trout)
LC50 (96 hr): 7.9 mg/L (BlueGill Sunfish)
LC50 (96 hr): >1000 mg/L (Fathead Minnow)
Crustaceans: LC50 (48 hr): 18.0 mg/L (Daphnia magna)
Algae: EC50 (96 hr): (chlorophyll) = 1.1 ppm

Persistence and degradability: No data available

Bioaccumulative potential: LogP = 4.93

Bioconcentration factor: No data available.

Mobility in soil: No data available

Other adverse effects: Very toxic to aquatic organisms.

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

U.S. DOT: Not DOT regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Chemical components are listed or exempt.



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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

Acute Health Hazard, Fire

SARA Section 313-Toxic Chemicals

This material does not contain any chemical components that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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: 12-11-2015

Version #: 01

Revision Information: GHS Format

Additional Information: The additive package for this product may contain some of the following at levels up to 1%: Butyl, CAS No. 142-77-8, White Mineral Oil, CAS No. 8042-47-5, Methylcellulose, CAS No. 9004-67-5, Vegetable Oil (Non-peanut), CAS No. 8013-07-8/

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