



Sovchem[®] MBTS

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Sovchem [®] MBTS Powder, Granule or Oiled Powder	Chemical Name: 2-Mercaptobenzothiazole Disulfide
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Chemicals for synthesis.
Issued By: Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: May 1, 2026

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS

Hazard Pictograms (CLP)	:  GHS07,  GHS09
Signal Word	: Warning
Hazard statements (CLP)	: H317 – May cause an allergic skin reaction, Category 1 H400 - Very toxic to aquatic life, Category 1 H410 - Very toxic to aquatic life with long lasting effects, Category 1
Precautionary statements (CLP)	: P261 – Avoid breathing dust/fume/gas/mist/vapors/spray P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear protective clothing, eye protection, face protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P321 – Specific treatment (see supplemental first aid instructions on this label) P333+ P313 - If skin irritation or rash occurs: Get medical advice/attention P501 - Dispose of contents/ container to an approved waste disposal plant P363 - Wash contaminated clothing before reuse P273 - Avoid release to the environment P391 - Collect spillage. Hazardous to the aquatic environment
Other Hazard	: This substance does not meet the criteria for PBT / vPvB of REACH regulation, annex XIII

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	EC No	Weight %	Classification
2-Mercaptobenzothiazole Disulfide	120-78-5	204-424-9	≥ 97	H317 – May cause an allergic skin reaction, Category 1 H400 - Very toxic to aquatic life, Category 1 H410 - Very toxic to aquatic life with long lasting effects, Category 1

4. FIRST AID MEASURES

Description of first aid measures

- First-aid measures general: In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation: Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
- First-aid measures after skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
- First-aid measures after eye contact: 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.
- First-aid measures after ingestion: Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

General: May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

General: Treat symptomatically. Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Physician should treat exposed patients symptomatically.

5. FIRE FIGHTING MEASURES*Extinguishing media*

Suitable extinguishing agents: Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing agents: Water jet.

Special hazards arising from the substance or mixture

General: Toxic emissions may result if product is involved in a fire. Fire produces highly toxic sulfur dioxide gas. Thermal decomposition and burning will produce carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides.

Advice for firefighters

General: 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. Fire fighters should wear full protective clothing, including self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES*Personal precautions, protective equipment and emergency procedures*

General measures: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

Environmental precautions

General precautions: Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

General methods and materials: Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal. Procedure for Cleaning/Absorption: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Scoop

up and remove. Do NOT spread spilled product with water.

Reference to other sections

Sections: See Section 7 for more information
 See section 8 for more information
 See section 13 for more information

7. HANDLING AND STORAGE

Precautions for safe handling

General: Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Avoid generation of dust. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

General: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Store away from strong oxidizing agents. Avoid exposure to direct sunlight. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

Specific end use(s)

General: No other information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Control Parameters

Exposure Limits	
Dibenzothiazole Disulfide (CAS # 120-78-5):	
OES-TWA	5.0 mg/m ³
TLV (United States)	10 mg/m ³

Derived No Effect Level (DNEL):

Workers	
Inhalation, Systemic effects, Long term	8.8 mg/m ³

Dermal, Systemic effects, Long term	5 mg/kg bw/day
General Population	
Inhalation, Systemic effects, Long term	2.2 mg/m ³
Inhalation, Systemic effects, Acute/short term	17.6 mg/m ³
Dermal, Systemic effects, Long term	2.5 mg/kg bw/day
Dermal, Systemic effects, Acute/short term exposure:	20 mg/kg bw/day
Oral, Systemic effects, Long term	1.25 mg/kg bw/day
Oral, Systemic effects, Acute/short term exposure	10 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

STP	3.8 mg/L
Sediment (freshwater)	0.22 mg/kg sediment dw
Sediment (marine water)	0.22 mg/kg sediment dw

Exposure controls

- Engineering controls: Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.
- Personal protective equipment: Suitable protective clothing.
- Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields.
- Hand protection: Based on the task being performed and the risks involved approved chemical-resistant, impervious gloves should be worn if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations. Suitable materials for this product are: PVC, nitrile rubber or Polychloroprene - CR. The breakthrough time for the mentioned materials is approx. one hour. Use hygiene measures as supporting or in case wearing of gloves may not be possible immediately.
- Respiratory protection: When no local exhaust ventilation is available, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard.
- Thermal hazard: No additional information available

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid powder or granule	Melting Point/Range: 164 °C
Color: Off white to light yellow	Boiling Point/Range: Decomposes above 240 °C
Odor: Slight aromatic odor	Odor threshold: Not determined
pH: Not determined	Flash point: Not applicable
Vapor Pressure: 1.35 x 10 ⁻⁹ hPa (25°C)	Flammability: Not flammable
Density at 20 °C: 1.56 g/cm ³	Ignition temperature: Not applicable
Relative density: 1.5 (20 °C)	Decomposition temperature: > 240°C
Solubility: Water: 0.05 mg/L (20 °C)	Partition coefficient (n-octanol/water): 4.5 (25°C)
Oxidizing properties: Not determined	Explosion limits: Lower: Not applicable Upper: Not applicable

Other information:

No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity:

Contact with acids liberates toxic gas.

Chemical Stability:

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions: A risk of explosion and/or of toxic gas formation exists with the following substances: strong oxidizing agents, acids.

Conditions to avoid: Heat, flames and sparks. Dispersion of dust. Temperatures above 250 °C. Incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong acids.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, ammonia, hydrogen cyanide, oxides of nickel.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified

Dibenzothiazole Disulfide (CAS #: 120-78-5)	
LD50 oral rat	> 7940 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Skin corrosion/irritation: Not irritating, rabbit.

Serious eye damage: Not irritating, rabbit.

Sensitization: May cause an allergic skin reaction, mouse, guinea pig.

Germ cell mutagenicity: Genotoxicity: Negative for genetic activity - in vitro tests. Negative for genetic activity - in vivo tests.

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT single exposure: Not classified

STOT multiple exposure: Not classified

Aspiration hazard: Not classified

Endocrine disrupting properties: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Other information: No information available

12. ECOLOGICAL INFORMATION

Toxicity

Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Degradation: 0%, 28 days.
Not readily biodegradable.

Bioaccumulative potential

Partition coefficient (Log Pow): 4.5 (25°C);
BCF: 51

Mobility in soil

Log Koc = 3.72

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine disrupting properties

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

UN-Number

DOT	N/A
ADR, ADN, IMDG, IATA, RID	UN3077

UN proper shipping name

DOT	N/A
ADR, ADN, IMDG, IATA, RID	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (Dibenzothiazole Disulfide)

Transport hazard class(es)

DOT	N/A
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ADR, ADN, IMDG, IATA, RID	9
Packing group	
DOT	N/A
ADR, ADN, IMDG, IATA, RID	III
Environmental hazards	Marine Pollutant
Marine pollutant	Yes (fish and tree symbol)
Special Marking (ADR)	Fish and tree symbol
Special Marking (IATA)	Fish and tree symbol
Special precautions for user	Not data available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation"	Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Section 355 (extremely hazardous substances)	Not listed
SARA Section 313 (Specific toxic chemical listings)	Not listed
TSCA (Toxic Substances Control Act)	Listed
Proposition 65 (California)	
Chemicals known to cause cancer	Not listed
Chemicals known to cause reproductive toxicity for females	Not listed
Chemicals known to cause reproductive toxicity for males	Not listed
Chemicals known to cause developmental toxicity	Not listed
Carcinogenic Categories	
IARC (International Agency for Research on Cancer)	Not listed
TLV (Threshold Limit Value established by ACGIH)	Not listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	Not listed
OSHA (Occupational Safety & Health Administration)	Not listed
Canada	
Canadian Domestic Substances List (DSL)	Listed
Canadian Ingredient Disclosure list (limit 0.1%)	Not listed
Canadian Ingredient Disclosure list (limit 1%)	Listed
REACH	
REACH Candidate List	Not listed
REACH XIV List	Not listed

Chemical safety assessment: No chemicals safety assessment has been carried out

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship