



Sovchem[®] CBS

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 [®] CBS Powder, Oiled Powder or Granule	Chemical Name: N-cyclohexyl-2 benzothiazolesulfenamide
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
N-cyclohexyl-2 benzothiazolesulfenamide	95-33-0	202-411-2	≥ 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: Instantly remove any clothing soiled by the product. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

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: CO₂, dry chemical, dry sand, foam.

Unsuitable extinguishing agents: Do not use straight streams.

Special hazards arising from the substance or mixture

General: Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, sulfur oxides, nitrogen oxides, hydrogen cyanide, zinc oxides.

Advice for firefighters

General: Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Do not allow run-off from fire-fighting to enter drains or water course.

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: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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	
N-cyclohexylbenzothiazole-2-sulphenamide(CAS # 95-33-0):	
WEL-TWA	4 mg/m ³ (respirable dust)
OES-TWA	10.0 mg/m ³ (inhalable dust); 4.0 mg/m ³ (respirable dust)
OSHA PEL/8Hr-TWA	15 mg/m ³ (Total Dust)
OSHA PEL/8-Hr TWA	5 mg/m ³ (Respirable Dust)
ACGIH TLV/8-Hr TWA	10 mg/m ³

Derived No Effect Level (DNEL):

Workers	
Inhalation, Systemic effects, Long term	11 mg/m ³
Inhalation, Local effects, Long term	11 mg/m ³
Dermal, Systemic effects, Long term	67 mg/kg bw/day
General Population	
Inhalation, Systemic effects, Long term)	2.8 mg/m ³

Inhalation, Systemic effects, Acute/short term exposure	2.8 mg/m ³
Inhalation, Local effects, Long term	2.8 mg/m ³
Dermal, Systemic effects, Long term	33 mg/kg bw/day
Dermal, Systemic effects, Acute/short term exposure:	266 mg/kg bw/day
Oral, Systemic effects, Long term	0.8 mg/kg bw/day
Oral, Systemic effects, Acute/short term exposure	6.4 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Fresh Water	0.001 mg/L
Marine Water	0.0001 mg/L
STP	100 mg/L
Sediment (freshwater)	0.308 mg/kg sediment dw
Sediment (marine water)	0.0308 mg/kg sediment dw
Soil	0.061 mg/kg soil dw
Oral	26.4 mg/L

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: 94-102°C
Color: Gray to white	Boiling Point/Range: Not determined
Odor: Slight odor	Odor threshold: Not determined
pH: Not determined	Flash point: Not applicable
Vapor Pressure: < 4.53*10 ⁻⁷ hPa (25°C)	Flammability: Not flammable
Density at 20 °C: 1.29 g/cm ³	Ignition temperature: Not applicable
Relative density: Not applicable	Decomposition temperature: 145°C
Solubility: Water: 0.32 mg/l at 21 °C and pH 7	Partition coefficient (n-octanol/water): 5 at 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: Stable under normal conditions.

Chemical Stability: Stable under recommended storage and handling conditions.

Possibility of hazardous reactions: None under normal processing. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid: Heat, flames and sparks. Incompatible materials.

Incompatible materials: Reducing materials, acids, Mercaptobenzothiazolate and cyclohexylamine.

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

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
LD50 oral rat	5300 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Skin corrosion/irritation: Not classified

Serious eye damage: Not classified

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

Germ cell mutagenicity: Negative. Not classified

Carcinogenicity: This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA. Negative in standard tests using bacteria and yeast cells.

Reproductive toxicity: Not classified

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
LOAEL (animal/male, F0/P)	800 mg/kg bw, rat
NOAEL (animal/male, F0/P)	250 mg/kg bw, rat
NOAEL (animal/female, F0/P)	800 mg/kg bw, rat

STOT single exposure: Not classified

STOT multiple exposure: Not classified

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
LOAEL (oral, rat, 90 days)	250 mg/kg bw, rat
NOAEL (oral, rat, 90 days)	800 mg/kg bw, rat

NOAEL (dermal, rat/rabbit, 90 days)	2000 mg/kg bw, rat
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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.

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
LC50 96h - Fish	2.1 mg/l <i>Oryzias latipes</i>
EC50 48h - Crustacea	0.79 mg/l <i>Daphnia magna</i>
EC50 72h - Algae	0.15 mg/l <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
NOEC chronic Crustacea	0.058 mg/l <i>Daphnia magna</i>
NOEC- Chronic Fish	0.041 mg/l <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
NOEC- Chronic Algae	0.0084 mg/l <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)

Persistence and degradability
 Degradation: 0%, 28 days.
 Not readily biodegradable.

Bioaccumulative potential

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
Bioconcentration factor (BCF)	924.9 L/kg
Partition coefficient n-octanol/water(Log Pow)	5 @ 25 °C and pH 7

Mobility in soil

N-Cyclohexyl-2-benzothiazole sulfenamide (CAS #: 95-33-0)	
Log Koc	3.56

Results of PBT and vPvB assessment
 The components are not considered to be persistent, bioaccumulating nor toxic (PBT) and 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 (N -cyclohexylbenzothiazole-2-sulfenamide)
Transport hazard class(es)	
DOT	N/A
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	Not applicable
UN "Model Regulation"	

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