

# Sovchem<sup>®</sup> DCBS


1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> Shandong Sunsine Chemical Co., Ltd. Unit 1505, Nanxincang International Tower No. 22 Dongshitiao, Doncheng District Beijing China 100007 For: Sovereign Chemical Company	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
<b>Trade Name(s):</b> Sovchem <sup>®</sup> DCBS Oiled Powder/Granule	<b>Synonyms:</b> Benzothiazyl-2-dicyclohexyl sulphenamide, DCBS
<b>Chemical Name:</b> N-N-Dicyclohexyl-2-benzothiazolesulfenamide	
<b>Relevant identified uses of the substance or mixture and uses advised against:</b> No further relevant information available.	<b>Application of the substance/the preparation:</b> Chemicals for synthesis.
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>Date of Issue:</b> November 1, 2018

## 2. HAZARDS IDENTIFICATION




### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

	GHS07	
	Acute Tox. 4	H302 Harmful if swallowed.
	Skin Irrit. 2	H315 Causes skin irritation.
	Skin Sens. 1	H317 May cause an allergic skin reaction.
	Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

	Xn; Harmful R 22: Harmful if swallowed
	Xi; Irritant R38: Irritating to skin
	Xi; Sensitizing R43: May cause sensitization by skin contact

R52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment: This product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

#### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

The product is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labeling

N-N—Dicyclohexyl-2-benzothiazole sulphenamide

Di(benzothiazol-2-yl) disulphide

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H302 Harmful if swallowed

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves and eye protection.

P264 Wash thoroughly after handling.

P261 Avoid breathing dust.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Additional information:

Contains di(benzothiazol-2-yl) disulphide. May produce an allergic reaction.

Hazard description

WHMIS-symbols



D2B – Toxic material causing other toxic

NFPA ratings (scale 0-4)



Health = 2

Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	2
FIRE	1
REACTIVITY	0

Health = 2  
Fire = 1  
Reactivity = 0

HMIS Long Term Health Hazard Substances: Substance is not listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components

CAS: 4979-32-2 EINECS: 225-625-88	N-N-Dicyclohexyl-2-benzothizole sulfonamide Xn R22;  Xi R38 R52/53 Acute Tox. 4, H302;  Skin Irrit. 2, H315 Aquatic Chronic 3, H412	>96%
CAS: 120-78-5 EINECS: 204-424-9 Index number: 613-135-00-0	Di(benzothiazol-2-yr) disulphide Xn R43;  N R50/53 R31 Acute 1, H400;  Aquatic Chronic 1, H410 Skin Sens. 1, H317	<1%
CAS: 101-83-7 EINECS: 202-980-7 Index number: 512-066-00-3	dicyclohexylamine C R34;  Xn R22  N R50/53 Sin Corr. 1B, H314 Acute 1, H400;  Aquatic Chronic 1, H410 Acute Tox. 4, H302	<0.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

**4. FIRST AID MEASURES**

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Coughing

Allergic reactions

Gastric or intestinal disorders

Breathing difficulty

Hazards

Danger of impaired breathing.

Danger of disturbed cardiac rhythm.

Condition may deteriorate with alcohol consumption.

Nor further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If swallowed, gastric irrigation.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

6.2 Environmental precautions: Do not allow to enter sewers, surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection: Dust can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility

Store away from foodstuffs.

Do not store together with oxidizing agents and acidic materials.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles.

Store receptacle in a well-ventilated area.

7.3 Specific end use(s): No further relevant information available.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

General Information

Appearance Form: Powder or granule Color: Light yellow	Change in Condition Melt Point/Range: Undetermined Boiling point/Range: Undetermined
Odor: Amine-like.	Octanol/Water Partition Coefficient: Not determined
Odor threshold: Not determined	Solvent content: Organic solvents: Not determined.
pH: Not applicable	Solids content: Not determined.
Vapor Pressure: Not applicable	Flash point: Not applicable.
Density at 20 °C: 1,2 g/cm <sup>3</sup>	Flammability (solid, gaseous): Not determined
Relative density Not determined.	Ignition temperature: Not determined
Vapor Density (Air = 1): Not applicable.	Decomposition temperature: Not determined
Evaporation rate Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.

Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.
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9.2 Other information No further relevant information available.

**10. STABILITY AND REACTIVITY**

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:		
4979-32-2 N_N_Dicyclohexyl-2-benzothizole sulfonamide		
Oral	LD50	1000-2000 mg/kg (rat)
101-83-7 dicyclohexylamine		
Oral	LD50	373 mg/kg (rate)

Primary irritant effect

on the skin: Irritant to skin and mucous membranes.

on the eye: Slight irritant effect on eyes.

Sensitization

Sensitization possible through skin contact.

Sensitizing effect through inhalation is possible by prolonged exposure.

Additional toxicological information

The product shows the following dangers according to the calculation method of the General EU

Classification

Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Danger through skin adsorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Sensitization: Sensitization possible by inhalation and/or dermal contact.

Repeated dose toxicity

Repeated exposures may result in skin and/or respiratory sensitivity.

May cause damage to organs through prolonged or repeated exposure.

**12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

Aquatic toxicity: This material is harmful to the environment.

12.2 Persistence and degradability: The product is partially biodegradable. Significant residuals remain.

12.3 Bioaccumulative potential: Does not accumulate in organisms.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects

## Remark

Harmful to fish

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

## Additional ecological information

This statement was deduced from the properties of the single components.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

## 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

## Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

## Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

## 14.1 UN-Number

DOT, ADR, IMDG, IATA N/A

## 14.2 UN proper shipping name

DOT, ADR, IMDG, IATA N/A



14.3 Transport hazard class(es) DOT, ADR, IMDG, IATA Class	N/A
14.4 Packing group DOT, ADR, IMDG, IATA	N/A
14.5 Environmental hazards Marine pollutant	N/A
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation" -	Not applicable.

**15. REGULATORY INFORMATION**

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

United States (USA)	
SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients is listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed.
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients is listed.
IARC (International Agency for Research on Cancer)	None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	101-83-7 dicyclohexylamine

Canadian Ingredient Disclosure list (limit 1%)	120-78-5 di(benzothiazol-2-yl) disulphide
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15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

Relevant phrases

- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R31 Contact with acids liberates toxic gas.
- R34 Causes burns.
- R38 Irritating to skin.
- R43 May cause sensitization by skin contact.
- R50/53 Very toxic to aquatic organisms may cause long term effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms may cause long term effects in the aquatic environment.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derive No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent