

Safety Data Sheet
According to Regulation (EU) No. 1907/2006
CBS

SDS Record Number: CSSS-TCO-010-120947

Printing date: 15/01/2021

Version 1.2

Revision date: 15/01/2021

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: CBS
Additional identification: CZ, Delacs, Accicure HBS,
N-cyclohexylbenzothiazole-2-sulfenamide
Identification of the product: CAS# 95-33-0; EC# 202-411-2
Index Number: 613-136-00-6
REACH registration No.: 01-2119486796-16-XXXX

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Production of tyres and general rubber goods
Tyre mounting and dismounting and handling of technical rubber goods Retreading
Use of tyres and general rubber goods

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): Shandong Sunshine Chemical Co., Ltd.
Address: Economy & Technical Development Zone, Shanxian City, Shandong Province, China.
Contact person(E-mail): sale@sunsine.com
Telephone: +86 530 4686360
Fax: +86 530 4684121

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours?

YES

☐

NO

☒

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
Skin Sens. 1	H317

For full text of H- phrases: see section 2.2.

2.2 label elements

Hazard Pictograms:



Signal Word(S):

Hazard Statement:

Precautionary Statement:

Warning
H317 May cause an allergic skin reaction.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352: IF ON SKIN: Wash with plenty of water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

Chemical Inspection & Regulation Service Limited

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2.3 Other hazards

Not available (PBT, vPvB, Substance is an endocrine disruptor etc.)

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
N-cyclohexylbenzothiazole-2-sulfenamide	01-2119486796-1 6-XXXX	95-33-0	212-411-2	≥96
Distillates(petroleum),hydrotreated heavy naphthenic	N/A	64742-52-5	265-155-0	≤1.5%
Unknown impurity	N/A	N/A	N/A	≤1%

4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

After inhalation of higher concentrations of dust: Whilst protecting yourself remove the casualty from the hazardous area and take him to the fresh air. Lay the casualty down in a quiet place and protect him against hypothermia. In the case of breathing difficulties have the casualty inhale oxygen. Arrange medical treatment. In cases of feeling irritation: As soon as possible repeatedly have the casualty deeply breathe a glucocorticoid inhalation spray in.

4.1.2 In case of skin contact:

Remove contaminated clothing while protecting yourself. Firstly, remove the dust from the skin mechanically. Immediately cleanse the affected skin areas with soap under running water. If available, best apply polyethylene glycol (e.g. Lutrol, PEG 400) and allow some minutes for it to take effect before rinsing with water. After extensive contact in each case: Arrange medical treatment.

4.1.3 In case of eyes contact:

Rinse the affected eye with widely spread lids for 10 minutes under running water whilst protecting the unimpaired eye. Arrange medical treatment.

4.1.4 In case of ingestion:

Rinse the mouth and spit the fluids out. If the casualty is conscious have him drink copious amounts of liquids (water). Make the casualty vomit. In the meantime call for a physician on emergency duty.

4.2 Most important symptoms and effects, both acute and delayed:

May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water (spray - not splash), Extinguishing powder, Foam.

Unsuitable extinguishing media: Not available..

5.2 Special hazards arising from the substance or mixture:

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Emits toxic fumes under fire conditions: Carbon monoxide (CO), Sulfur oxides (SOx), nitrous gases (NOx).

5.3 Advice for firefighters:

Cool surrounding containers with water spray. If possible, take container out of dangerous zone. Shut off sources of ignition. Stay on upwind side. Do not allow runoff to get into the sewage system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions

Avoid disposing into drainage/sewer system or directly into the aquatic environment. keeping away from drains, surface-and ground-water and soil.

6.3 Methods for Containment and Cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area.

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 information on disposal.

7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Take care to maintain clean working place. The substance must not be present at workplaces in quantities above that required for work to be progressed. Do not leave container open. Use leak-proof equipment with exhaust for refilling or transfer. Avoid spillage. Fill only into labelled container. Avoid any contact when handling the substance. Avoid rising dust. Use an appropriate exterior vessel when transporting in fragile containers.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Do not use any food containers - risk of mistake. Containers have to be labelled clearly and permanently. Store in the original container as much as possible. Keep container tightly closed. Recommended storage at room temperature. Store in a dry place. Keep container in a well-ventilated place.

7.3 Specific end use(s):

Not applicable.

8 Exposure control/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL(Derived No Effect Level): 11 mg/m³

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Workers - Hazard via inhalation route- Systemic effects- Acute/short term exposure- DNEL (Derived No Effect Level): 11 mg/m³

Workers - Hazard via inhalation route- Local effects- Long term exposure- DNEL (Derived No Effect Level): 11 mg/m³

Workers - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 67 mg/kg bw/day

Workers - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 534 mg/kg bw/day

General Population - Hazard via inhalation route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 2.8 mg/m³

General Population - Hazard via inhalation route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 2.8 mg/m³

General Population - Hazard via inhalation route- Local effects- Long term exposure - DNEL (Derived No Effect Level): 2.8 mg/m³

General Population - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 33 mg/kg bw/day

General Population - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 266 mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 0.8 mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 6.4 mg/kg bw/day

Hazard for aquatic organisms- PNEC aqua (freshwater): 0.001 mg/L

Hazard for aquatic organisms- PNEC aqua (marine water): 0 mg/L

Hazard for aquatic organisms- PNEC STP: 100 mg/L

Hazard for aquatic organisms- PNEC sediment (freshwater): 0.308 mg/kg sediment dw

Hazard for aquatic organisms- PNEC sediment (marine water): 0.031 mg/kg sediment dw

Hazard for terrestrial organisms- PNEC soil: 0.061 mg/kg soil dw

Hazard for predators- PNEC oral: 26.4 mg/kg food

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection	Wear appropriate goggles to prevent eye exposure.
Hand protection	Wear appropriate gloves to prevent skin exposure.
Body protection	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Gray purple to purple brown granule
Colour:	Gray purple to purple brown
Odour:	Aromatic
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	94 – 102 °C
Boiling point/range (°C) :	Not available

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Flash point (°C) :	Not available
Evaporation rate:	Not applicable
Flammability (solid, gas);	Not available
Ignition temperature (°C) :	Not available
Upper/lower flammability/explosive limits:	Not available.
Vapour pressure (20°C) :	Not available
Vapour density:	Not applicable
Relative Density:	1.29g/cm ³
Bulk density (kg/m ³) :	Not available
Water solubility (g/l) :	0.32mg/l
n-Octanol/Water (log Po/w) :	Log Pow:5.0 at 25°C and PH 7
Auto-ignition temperature:	Not available
Decomposition temperature:	145°C
Viscosity, dynamic (mPa s) :	33mPa.s@60°C
Explosive properties:	Not determined
Oxidising properties:	Not applicable
Molecular Formula:	C ₁₃ H ₁₆ N ₂ S ₂
Molecular Weight:	264.41

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

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10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

Incompatible materials.

10.5 Incompatible materials:

Strong oxidizing agents, acids and nitrosating agents.

10.6 Hazardous decomposition products:

Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx).

11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Non-human toxicological data: Not available

Method: Not available

Dosis: Not available

Routes of administration: Not available

Results: Not available

Absorption: Not available

Distribution: Not available

Metabolism: Not available

Excretion: Not available

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): 5300 mg/kg

LD50(Dermal Rabbit): > 5000 mg/kg

LD50(Inhalation, Rat): > 8000 mg/kg

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

reproductive toxicity: Not classified

STOT- single exposure: Not classified

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STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

12 Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	0.78 mg/l	96h	Fish	OECD 203	N/A	N/A
LC50	0.79mg/l	48h	Daphnia	OECD 202	N/A	N/A
EC50	0.60 mg/l	96h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Aerobic Biodegradation: 50% after 2.9 hours. Rapid degradation via hydrolysis: 93% after 24 hours at pH 7.0 and 25°C. Tests indicate this material will not bioaccumulate or persist in the environment.

Bioaccumulative potential: Not applicable.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

13 Disposal considerations

13.1 Waste treatment methods

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not regulated	Not regulated	Not regulated
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	Not regulated	Not regulated	Not regulated
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

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15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES ☐ NO ☒

16 Other information

16.1 Indication of changes Version 1.2 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.