

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator DCBS(DZ)

HS Code:29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	N,N-dicyclohexyl-2-benzothiazole sulphenamide
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
Emergency telephone	TEL: +86 18661665800
Intended use	Rubber Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	二苯胍 N,N-dicyclohexyl-2-benzothiazole sulphenamide
CAS NO.	4979-32-2
Chemical description	White granule
TSCA NO.	none
EINECS NO.	none
Other information	$C_{19}H_{26}N_2S_2$

3. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin	Wash immediately with soap and water.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to Ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	Rinse mouth, give water to drink.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO ₂
Unsuitable extinguishing media	Waterjet
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/combustion products	Carbon monoxide(CO),Sulfur oxides(SO _x),Nitrous gases (NO _x).
Protective equipment	Wear self contained breathing apparatus.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see Section 8. Avoid dust generation.
Environmental precautions	Avoid discharge into the environment. Collect as much as possible in a clean container for
Methods for cleaning up	(preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin. Avoid dust generation. The usual precautions for handling chemicals should be observed. Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.
Fire and explosion prevention	Dust explosion class (VDI 2263): St 1. Kst: 173 bar.m/s. Maximum corrected explosion pressure: 7.6 bar.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
Exposure limits	No exposure limit has been established.
Name: N,N-dicyclohexyl-2-benzothiazole sulphenamide	No exposure limit has been established.
Personal protection	
Respiratory	Avoid breathing dust.
Hand	Wear suitable gloves.
Eye	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granule	Colour	White
Odour	---	Boiling point	---
Melting point ≥	97°C	Flash point	---
Flammability	---	Explosion limits	---
Explosive properties		Auto ignition temperature	---
Oxidizing properties	---	Vapour pressure	---
Density	1.23g/cm ³ (25°C)	Bulk density	---
Solubility in water	Insoluble in water	Solubility in other solvents	In most organic solvents
pH value	---	Partition coefficient	---
Residues (150um)% Max	---	Relative vapour density	---
Insoluble in cyclohexylane%	---	Assay content % ≥	95
Strength of grain(N)	0.6-2.5	Ashes % Max	0.3(Max)
Soluble Zinc content ≤	---	Oil content %	---

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Keep away from heat.
Materials to avoid	No specific recommendations.
Hazardous decomposition products	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Name	N,N-dicyclohexyl-2-benzothiazole sulphenamide
Acute toxicity	
Oral LD50	rat : 5000mg/kg

Dermal LD50 rabbit : 5000 mg/kg

Irritation

Skin Non-irritating
Eye Non-irritating

12. ECOLOGICAL INFORMATION

Name N,N-dicyclohexyl-2-benzothiazole sulphenamide
Ecotoxicity
Degradation Biotic Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Product Avoid discharge into the environment
 Small quantities: According to local regulations.
 Large quantities: Consult YLSCH Chemical for special advice.
Contaminated packaging According to local regulations.
 Waste code number: Please refer to your specific industry
Other information in the European Waste Catalogue.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class	----	RID class	----
ADR/RID packing group	----	Hazard Identification No.	----
Substance Identification No.	----	UN number	----

Environmentally hazard us substance, solid, n.o.s.

Proper Shipping Name (N,N-dicyclohexyl-2-benzothiazole sulphenamide)

Sea transport (IMDG-code/ IMO)

Correct technical name	----	IMDG Class	
UN Number		Packaging group	
EMS Number	----		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class	----	UN number	----
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Packing group Environmentally hazardous substance, solid, n.o.s.

Correct technical name (N,N-dicyclohexyl-2-benzothiazole sulphenamide)



15.REGULATORY INFORMATION

Chemical description	N,N-dicyclohexyl-2-benzothiazole sulphenamide
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Tests
R(isk) phrase(s)	R53 may cause long-term adverse effects in the aquatic environment.
S(afety) phrase(s)	S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
Other information	Not restricted
Wassergefährdungsklasse (WGK)	2 (VwVwS Anhang 2, Nr. 1321)

16.OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

