

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber Accelerator DCBS(DZ)****HS Code: 38121000.00****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	N,N'-二环己基-2-苯并噻唑次磺酰胺 N,N-dicyclohexyl-2-benzothiazole sulphenamide 深圳市华起达实业有限责任公司 Meyor Industrial Co.,Ltd 深圳市罗湖区中兴路, 外贸集团大厦 2610-2611 室
供应商/ Supplier	RM 2610-2611 Foreign Trade Building, Zhong Xing Road Shen Zhen. China TEL:+86-755-82184166 FAX:+86-755-82187033
紧急电话/ Emergency telephone	+86-755-82190130
产品用途/ Intended use	橡胶硫化促进剂/ Rubber Vulcanisation accelerator

2. 成分/组成信息(COMPOSITION/INFORMATION ON INGREDIENTS)

化学名/ Chemical name	N,N'-二环己基-2-苯并噻唑次磺酰胺 N,N-dicyclohexyl-2-benzothiazole sulphenamide
CAS 编号/ CAS NO.	4979-32-2
产品描述/ Chemical description	白色颗粒/ White granule
TSCA NO.编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	C ₁₉ H ₂₆ N ₂ S ₂

3. 危险性鉴定(HAZARDS IDENTIFICATION)**GHS Classification (United States)**

Acute toxicity, Oral (Category 3)
Serious eye damage (Category 1)
Chronic aquatic toxicity (Category 4)

Pictogram(s)**Signal word:**

Danger

Hazard statement(s)



H301 Toxic if swallowed.

H318 Causes serious eye damage.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s):

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a poison center or doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center or doctor.

P321 Specific treatment (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

California Proposition 65: Not Available..

NFPA Rating:

Health: 1

Flammability: 0

Instability: 0

4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects

Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

粉尘可能吸入呼吸道，从而导致支气管炎。

急救/ First aid

通常情况/ General

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

任何可疑情况，或有任何症状出现，请马上找医生咨询。

吸入/ Inhalation

Move to fresh air. If symptoms persist, seek medical advice.

呼吸新鲜空气。如果有持续症状，请马上就医。

皮肤/ Skin

Wash immediately with soap and water.

立即用肥皂和清水冲洗。

眼睛/ 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.

翻开眼睑用清水冲洗干净。

确保洗除残渣。如果出现愤怒症状请就医。

摄取/ Ingestion

Rinse mouth, give water to drink.

请漱口，喝水。



医生建议/ Advice to physician

No specific recommendations.

无详细建议。

5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media

Waterspray, water mist, foam, dry chemical powder, CO₂
喷物, 水雾, 泡沫, 干粉灭火器, CO₂

不适用的灭火媒介

Waterjet.

/ Unsuitable extinguishing media

水柱(流)

特殊危险/ Special exposure hazards

Emits toxic fumes under fire conditions.

在火灾情况下释放的有毒烟气。

分解腐烂危险/燃烧产品/

Carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases (NO_x).

Hazardous decomposition/

combustion products

一氧化碳, 硫的氧化物, 氮的氧化物。

保护设备/ Protective equipment

Wear self contained breathing apparatus.

需佩戴空气呼吸器。

其他信息/ Other information

Do not allow run-off from fire fighting to enter drains or water courses.

避免消防水接触下水道, 土地或水源。

6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)

个人防范/ Personal precautions

For personal protection see Section 8. Avoid dust generation.

对于个人防范请参照第 8 部分。避免粉尘的产生。

环境预防/ Environmental precautions

Avoid discharge into the environment.

避免流入环境之中。

清洁处理方法/ Methods for cleaning up

Collect as much as possible in a clean container for (preferable) reuse or disposal.

尽可能的将其收集在清洁的容器里以便回收或集中处理。

7. 操作处置与储存(HANDLING AND STORAGE)

操作处置/ Handling

Avoid dust generation.

The usual precautions for handling chemicals should be observed.

避免粉尘。

操作化学品的通常预防措施是观察。

Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

Dust explosion class (VDI 2263): St 1.

Kst: 173 bar.m/s.

Maximum corrected explosion pressure: 7.6 bar.

粉尘/空气 混合物可能会引起猛烈的爆炸。

粉尘爆炸等级(VDI 2263): St 1.

Kst: 173 bar.m/s.

火灾爆炸处理/

Fire and explosion prevention



最大修正爆炸压力: 7.6 bar.

储存要求/ Storage requirements

Store in a dry and cool place.

储存于干燥与阴凉的地方。

8. 接触控制/个体防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)

工程学控制/ Engineering controls

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

避免粉尘产生。确保当地工作场所通风。

暴露限制/ Exposure limits

No exposure limit has been established.

无暴露限制被确立。

名称/ Name: N,N'-二环己基-2-苯并噻唑次磺酰胺
N,N-dicyclohexyl-2-benzothiazole sulphenamide

No exposure limit has been established.

无暴露限制被确立。

个体防护/ Personal protection

呼吸器/ Respiratory

Avoid breathing dust.

避免吸入粉尘。

手/ Hand

Wear suitable gloves.

佩戴相应的长手套。

眼/ Eye

Avoid contact with eyes.

避免接触眼睛。

皮肤和身体/ Skin and body

Wear suitable protective clothing.

穿戴相应的保护服装。

9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)

外观/ Appearance	White granule 白色颗粒	颜色/ Colour	White 白色
气味/ Odour	---	沸点/ Boiling point	---
熔点/ Melting point $\geq$	96.0 $^{\circ}$ C	闪点/ Flash point	---
易燃性/ Flammability	----	爆炸极限/ Explosion limits	----
爆炸性/ Explosive properties	----	自燃温度/ Auto ignition temperature	----
氧化性/ Oxidizing properties	----	蒸汽压/ Vapour pressure	----
比重/ Density	1.23g/cm ³ (25 $^{\circ}$ C)	体积密度/ Bulk density	----
溶解性/ Solubility in water	Insoluble in water 不溶于水	在其它溶剂中的溶解性 Solubility in other solvents	in most organic solvents 在多数有机溶剂中溶解
PH 值/ pH value	----	分解系数/ Partition coefficient	----
Strength of grain(N) 颗粒强度	0.6-2.5	相对蒸汽密度/ (air=1) Relative vapour density	----

**Insoluble in**

cyclohexanylane% ≤0.50

灰份/ Ashes % Max.

0.3 (Max)

环己烷不溶物

纯度/Assay content % ≥ 95

10. 稳定性和反应性(STABILITY AND REACTIVITY)**稳定性/ Stability**

Stable under recommended storage and handling conditions
(see section 7).

应避免的情况/ Conditions to avoid

推荐的稳定储存和搬运条件（请参照第 7 部分）

Keep away from heat.

应避免的物质/ Materials to avoid

No specific recommendations.

无特殊推荐。

腐烂分解毒害性产品/

No hazardous decomposition products known.

Hazardous decomposition products

不清楚有腐烂分解性物质。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)**名称/ Name**

N,N'-二环己基-2-苯并噻唑次磺酰胺

N,N-dicyclohexyl-2-benzothiazole sulphenamide

敏感性毒害/ Acute toxicity**口头的/ Oral LD50**

老鼠/ rat: 5000 mg/kg.

皮肤的/ Dermal LD50

兔子/ rabbit: 5000 mg/kg.

易愤怒/ Irritation**皮肤/ Skin**

Non-irritating

不会导致愤怒

眼睛/ Eye

Non-irritating

不会导致愤怒

12. 生态学资料(ECOLOGICAL INFORMATION)**名称/ Name**

N,N'-二环己基-2-苯并噻唑次磺酰胺/ N,N-dicyclohexyl-2-benzothiazole sulphenamide

生态学/ Ecotoxicity**初级生物/ Degradation****Biotic**

不能被轻易分解/ Not readily biodegradable.

13. 废弃处理(DISPOSAL CONSIDERATIONS)**产品/ Product**

Avoid discharge into the environment.

Small quantities: According to local regulations.

Large quantities: Consult Meyors Chemical for special advice.



	避免流入环境。
	小量：根据当地规定。
	大量：请联系美尔化工获取建议。
包装污染/ Contaminated packaging	According to local regulations.
	根据当地规定。
其他信息/ Other information	Waste code number: Please refer to your specific industry in the European Waste Catalogue.
	消耗物代码：请联系欧洲在消耗物领域的特殊工业。

14. 运输信息(TRANSPORT INFORMATION)

陆运/ Land transport (ADR/ RID)

ADR 等级/ ADR class	not restricted 无限制	RID 等级/ RID class	not restricted 无限制
ADR/RID 包装组成/	not restricted	危害鉴定号/	not restricted
ADR/RID packing group	无限制	Hazard Identification No.	无限制
物质鉴定号/	not restricted	UN 号	None/ 无
Substance Identification No.	无限制	UN number	
适当海运名称/	N,N'-二环己基-2-苯并噻唑次磺酰胺/		
Proper Shipping Name	N,N-dicyclohexyl-2-benzothiazole sulphenamide		

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称	not restricted	IMDG 等级	not restricted
Correct technical name	无限制	IMDG Class	无限制
UN 号码/ UN Number	not restricted	包装组成	not restricted
	无限制	Packaging group	无限制
EMS 号/ EMS Number	not restricted		---
	无限制		

空运/ Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 等级	not restricted	UN 号	not restricted
ICAO-TI/IATA-DGR Class	无限制	UN number	无限制
包装组成	not restricted		
Packing group	无限制		
正确的技术名称	N,N'-二环己基-2-苯并噻唑次磺酰胺/		
Correct technical name	N,N-dicyclohexyl-2-benzothiazole sulphenamide		

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description	N,N'-二环己基-2-苯并噻唑次磺酰胺/ N,N-dicyclohexyl-2-benzothiazole sulphenamide
标签根据 EC 指标/ Labelling according to EC directives	
EC 号/ EC-number	See section 2 查看第 2 部分
分级标准/ Classification based on	Tests/ 测试



危险性短语/ R(isk) phrase(s)	May cause long-term adverse effects in the aquatic environment 可能导致对水生环境的长期影响。
安全性短语/ S(afety) phrase(s)	S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets S 61 避免释放到环境，参照相关指令或安全数据表。
其他信息/ Other information	not restricted/ 无限制
Wassergefährdungsklasse (WGK)	2 (VwVwS Anhang 3, Nr. 1321)

16. 其他信息(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.

这些信息仅仅涉及以上提到的产品，如果用于其他产品或其他过程，本公司不付任何法律责任。这些信息是我们当前最新最好的资料编写而成，值得信任，但我们不能绝对保证没有错误。它仅仅起到提醒使用者自己使这些信息指导相关产品用于适当的地方。