

**SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber antioxidant NBC****HS Code: 29302000.90****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	二丁基二硫代氨基甲酸镍 Nickel dibutylldithiocarbamate 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	橡胶防老剂/ Rubber Antioxidant

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

化学名/ Chemical name	二丁基二硫代氨基甲酸镍 Nickel dibutylldithiocarbamate
CAS 编号/ CAS NO.	13927-77-0
产品描述/ Chemical description	橄榄绿色粉末/ Olive green powder
TSCA NO.编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	Formula: C <sub>18</sub> H <sub>36</sub> N <sub>2</sub> S <sub>4</sub> Ni

**3. 危险性概述(HAZARDS IDENTIFICATION)**

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	COMBUSTIBLE DUSTS RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Environmental hazards	Hazardous to the aquatic environment, acute Category 1 hazard Hazardous to the aquatic environment, Category 1 long-term hazard
OSHA defined hazards	Not classified.



Label elements	
Signal word	Warning
Hazard statement	May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
NFPA ratings	
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 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. Repeated contact may cause skin sensitization. 粉尘可能吸入呼吸道，从而导致支气管炎。 经常接触可能导致皮肤过敏。
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	Remove all contaminated clothing immediately. Wash off with plenty of water and non-abrasive soap.



	Seek medical advice if irritation develops. Launder clothes before reuse. 立即移走所有被污染的衣物。用非磨料肥皂和清水冲洗。 如果出现愤怒、烦躁症状请立即就医。衣物重新使用前需洗涤干净。 Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to 眼睛/ Eye 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。 Do not induce vomiting. Immediately give two glasses of water, a little at a time. Never give anything by mouth to an unconscious person. Call a physician. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs. 摄取/ Ingestion 不要引起呕吐, 立即喝 2 杯水休息会, 不要放任何东西在昏迷者口中, 请叫医生。如果呕吐自然发生应低头腰部以下, 防止水流向肺。 医生建议/ Advice to physician No specific recommendations. 无详细建议。
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## 5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media	waterspray, water mist, foam, dry chemical powder, CO <sub>2</sub> 喷水, 水雾, 泡沫, 干粉灭火器, CO <sub>2</sub>
不适用的灭火媒介 / Unsuitable extinguishing media	waterjet. 水注 (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/ Hazardous decomposition/ combustion products	Carbon monoxide (CO), nitrous gases (NO <sub>x</sub> ). 一氧化碳, 氮的氧化物。
保护设备/ Protective equipment	Wear self contained breathing apparatus. 需佩戴空气呼吸器。 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。
其他信息/ Other information	

## 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 prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling. Store in cool area. Keep away from heat, sparks, and
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**储存要求/ Storage requirements**

flames. Under dusty conditions, static electricity may cause an explosion

避免长时间或反复与皮肤接触，充分利用通风。处理后洗净，储存在阴凉的地方，远离高温、火花、火焰。粉尘条件下，静电可能产生爆炸

No specific storage is required.

Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

没有特殊的存储要求。

**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****个体防护/ Personal protection****呼吸器/ Respiratory**

Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

避免吸入粉尘。在通风不畅的情况下请佩戴相应的呼吸器。

**手/ Hand**

Wear suitable gloves.

佩戴相应的长手套。

**眼/ Eye**

Wear safety goggles.

佩戴防护眼罩。

**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	Olive green powder 橄榄绿色粉末	颜色/ Colour	Olive green 橄榄绿色
气味/ Odor	not determined	沸点/ Boiling point	not determined
熔点/ Melting point	≥85℃	闪点 / Flash point	not determined
易燃性/ Flammability	not determined	爆炸极限/ Explosion limits	not determined
爆炸性/ Explosive properties	not determined	自燃温度/ Autoignition temperature	not determined (approx. 500 °C)
氧化性/ Oxidizing properties	not applicable 不适用	蒸汽压/ Vapour pressure	not determined
Residue in (150µm)/ 筛余物% (150µm)	≤0.1	加热减量/ Loss on drying	≤0.5%



溶解性/ <b>Solubility in water</b>	Insoluble in cold water	在其它溶剂中的 <b>溶解性</b> <b>Solubility in other solvents</b>	Benzene,toluene, chlorobenzen 苯, 甲苯, 氯苯。
<b>Nickel content (%) / 镍含量%</b>	11.8-13.2	<b>分解系数/ Partition coefficient</b>	not determined
<b>n-octanol/water</b>	not applicable 不能提供	<b>相对蒸汽密度/ (air=1) Relative vapour density</b>	not determined
<b>粘性/ Viscosity</b>	not applicable/不能提供	<b>油 含 量 /Oil content</b>	1.0-2.0%
<b>纯度/Assay content % ≥</b>	95		

## 10. 稳定性和反应性(STABILITY AND REACTIVITY)

<b>稳定性/ Stability</b>	Stable under recommended storage and handling conditions (see section 7). 推荐的稳定储存和搬运条件 (请参照第 7 部分)
<b>应避免的情况/ Conditions to avoid</b>	Illumination 光照
<b>应避免的物质/ Materials to avoid</b>	Strong oxidants, strong acid. 强氧化剂、强酸。
<b>腐烂分解毒害性产品/ Hazardous decomposition products</b>	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx).. 热分解产品: 一氧化碳, 氮的氧化物。

## 11. 毒理学资料(TOXICOLOGICAL INFORMATION)

<b>名称/ Name</b>	二丁基二硫代氨基甲酸镍 N, N'-diphenyl-p-phenylenediamine
<b>敏感性毒害/ Acute toxicity</b>	
<b>口头的/ Oral LD50</b>	老鼠/ rat: 2370 mg/kg.
<b>皮肤的/ Dermal LD50</b>	兔子/ rabbit: 500 mg/kg.
<b>易愤怒/ Irritation</b>	
<b>皮肤/ Skin</b>	Not expected to be a significant hazard. 不会有很大的危险。
<b>眼睛/ Eye</b>	Dust or fumes from heated material may cause irritation to eyes. 材料加热产生的灰尘和烟对眼有刺激。

## 12. 生态学资料(ECOLOGICAL INFORMATION)



名称/ Name	二丁基二硫代氨基甲酸镍 N, N'-diphenyl-p-phenylenediamine
生态学/ Ecotoxicity	
鱼/ fish	----
水蚤/ daphnia	-----
藻类/ algae	
初级生物/ Degradation Biotic	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

## 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	RID 等级/ RID class	not restricted
ADR/RID 包装组成/	III	危害鉴定号/	----
ADR/RID packing group		Hazard Identification No.	
物质鉴定号/	3077	UN 号	3077
Substance Identification No.		UN number	
	Environmentally hazardous substance, solid, n.o.s.		
适当海运名称/	(N, N'-diphenyl-p-phenylenediamine)		
Proper Shipping Name	环境危害物质，固体，n.o.s		
	二丁基二硫代氨基甲酸镍		
海运/ Sea transport (IMDG-code/ IMO)			
正确的技术名称	----	IMDG 等级	None
Correct technical name		IMDG Class	
UN 号码/ UN Number	Not relevant	包装组成	Environmentally hazardous substance, Solid
		Packaging group	
EMS 号/ EMS Number	Not relevant		----
空运/ Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR 等级	Not restricted	UN 号	3077



ICAO-TI/IATA-DGR Class	UN number
包装组成 Packing group	Environmentally hazardous substance, Solid 对环境有害的物质, 固体。
正确的技术名称 Correct technical name	Environmentally hazardous substance, solid, n.o.s. (N, N'-diphenyl-p-phenylenediamine) 环境危害物质, 固体, n.o.s 二丁基二硫代氨基甲酸镍

**15. 法规信息(REGULATORY INFORMATION)**

化学品描述/ Chemical description	二丁基二硫代氨基甲酸镍 N, N'-diphenyl-p-phenylenediamine
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	Annex-1 to directive 67/548/EEC 根据 67/548/EEC 指示
危险性短语/ R(isk) phrase(s)	R 53 may cause long-term adverse effects in the aquatic environment R 53 可能导致对水生环境的长期影响。 S 60 This material and its container must be disposed of as hazardous waste
安全性短语/ S(afety) phrase(s)	S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets S 60 这种物质和其容器必须按照有害物质的原则进行相应处理。 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	To be displayed on the label: "EC label". 显示在"EC label"标签上。
Wassergefährdungsklasse (WGK)	-----

**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。