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Tel: +86-755-8218 4166 Fax: +86-755-8218 7033
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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)

二丁基二硫代氨基甲酸镍 产品标签名/ Product label name

Nickel dibutyldithiocarbamate

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

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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

Nickel dibutyldithiocarbamate

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

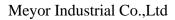
EINECS 号码/ EINECS NO. 无/ none

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.			

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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	2 0		
	Health: 2*		
HMIS® ratings	Flammability: 1		
 4. 急救措施(FIRST AID MEASURES)	Physical hazard: 0		
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.		

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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.

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。

No specific recommendations.

医生建议/ Advice to physician

无详细建议。

### 5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media

不适用的灭火媒介

摄取/Ingestion

/ Unsuitable extinguishing media

特殊危险/ Special exposure hazards

分解腐烂危险/燃烧产品/ Hazardous decomposition/ combustion products

保护设备/ Protective equipment

其他信息/ Other information

环境预防/ Environmental precautions

清洁处理方法/ Methods for cleaning up

waterspray, water mist, foam, dry chemical powder, CO2

喷物,水雾,泡沫,干粉灭火器,CO2

waterjet.

水注(流)

Emits toxic fumes under fire conditions.

在火灾情况下释放的有毒烟气。

Carbon monoxide (CO), nitrous gases (NO<sub>x</sub>).

一氧化碳, 氮的氧化物。

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。

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

For personal protection see Section 8. Avoid dust generation.

个人防范/ Personal precautions

对于个人防范请参照第8部分。避免粉尘的产生。

Avoid discharge into the environment.

避免流入环境之中。

Collect as much as possible in a clean container for

(preferable) reuse or disposal.

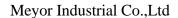
尽可能的将其收集在清洁的容器里以便回收或集中处理。

#### 7. 操作处置与储存(HANDLING AND STORAGE)

Avoid prolonged or repeated contact with skin. Use with 操作处置/ **Handling** adequate ventilation. Wash thoroughly after handling.

Store in cool area. Keep away from heat, sparks, and

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flames. Under dusty conditions, static electricity may caus

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。

储存要求/ Storage requirements

工程学控制/ Engineering controls

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

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

呼吸器/ Respiratory

手/ Hand

眼/ Eye

个体防护/ Personal protection

皮肤和身体/ Skin and body

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带相应的呼吸器。

Wear suitable gloves.

佩戴相应的长手套。

Wear safety goggles.

佩戴防护眼罩。

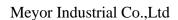
Wear suitable protective clothing.

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	<b>≥85</b> °C	闪 点 / Flash point 爆炸极限/	not determined
易燃性/ Flammability	not determined	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%

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溶解性/

Meyors - RBB

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在其1	它溶剂	山	竹
1工大	L HF71.	ıT	נם

溶解性 Insoluble in cold water

Benzene, toluene, chlorobenzen

Solubility in

苯,甲苯,氯苯。

other solvents

分解系数/

Nickel content (%)/

Solubility in water

镍含量%

n-octanol/water

稳定性/ Stability

11.8-13.2

**Partition** 

not determined

coefficient

相对蒸汽密度/

not applicable

不能提供

(air=1) Relative

not determined

vapour density

not applicable/不能提供 粘性/ Viscosity

纯 度 /Assay

content % ≥

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

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)

Illumination

光照

应避免的物质/ Materials to avoid

应避免的情况/ Conditions to avoid

Strong oxidants, strong acid.

强氧化剂、强酸。

腐烂分解毒害性产品/

Hazardous decomposition products

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)

二丁基二硫代氨基甲酸镍 名称/ Name

N, N'-diphenyl-p-phenylenediamine

敏感性毒害/ Acute toxicity

口头的/ Oral LD50 老鼠/ rat: 2370 mg/kg.

皮肤的/ Dermal LD50 兔子/ rabbit: 500 mg/kg.

易愤怒/ Irritation

眼睛/ Eye

Not expected to be a significant hazard.

皮肤/ Skin 不会有很大的危险。

Dust or fumes from heated material may cause irritation to eyes.

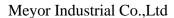
材料加热产生的灰尘和烟对眼有刺激。

12. 生态学资料(ECOLOGICAL INFORMATION)

二丁基二硫代氨基甲酸镍 名称/ Name

N, N'-diphenyl-p-phenylenediamine

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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)

Avoid discharge into the environment.

Small quantities: According to local regulations.

产品/ **Product** 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。

According to local regulations.

包装污染/ Contaminated packaging

根据当地规定。

Waste code number: Please refer to your specific industry in the European

其他信息/ Other information 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/ 危害鉴定号/

ADR/RID packing group Hazard Identification No.

物质鉴定号/

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)

Correct technical name

正确的技术名称 IMDG 等级 ---- None

包装组成 Environmentally hazardous

**IMDG Class** 

UN 号码/ UN Number Not relevant

Packaging group substance, Solid

EMS 号/ EMS Number Not relevant

空运/ Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 等级 UN 号

Not restricted 3077
ICAO-TI/IATA-DGR Class UN number

包装组成 Environmentally hazardous substance, Solid

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Packing group 对环境有害的物质,固体。

Environmentally hazardous substance, solid, n.o.s.

正确的技术名称 (N, N'-diphenyl-p-phenylenediamine)

Correct technical name 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

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

R 53 may cause long-term adverse effects in the aquatic

危险性短语/ R(isk) phrase(s) 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

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。

To be displayed on the label: "EC label".

显示在"EC label"标签上。

Wassergefährdungsklasse (WGK)

安全性短语/ S(afety) phrase(s)

其他信息/ Other information

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#### 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。

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