

**SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber Antioxidant 4020(6PPD)****HS Code: 29215190.90****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	N-(1,3-二甲基丁基)-N'-苯基对苯二胺 N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine 深圳市华起达实业有限责任公司 Meyors Chemical INC Limited 香港中兴街 39 号惠灵顿大厦 301-302
供应商/ Supplier	Flat/ RM 301-302, Lucky Building. 39 Wellington Street. Central Hong Kong 深圳市罗湖区中兴路外贸集团大厦 2610-2611 室 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	N-(1,3-二甲基丁基)-N'-苯基对苯二胺 N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine
CAS 编号/ CAS NO.	793-24-8
产品描述/ Chemical description	深紫色颗粒/ Dark purple pellet
TSCA NO. 编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	Formula: C ₁₈ H ₂₄ N ₂

3. 危险性概述(HAZARDS IDENTIFICATION)

经常接触可能会导致皮肤过敏。	Repeated contact may cause skin sensitization.
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4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects	Repeated contact may cause skin sensitization. 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 soap and water.



	Seek medical advice if irritation develops. Launder clothes before reuse. 立即移走所有被污染的衣物。用肥皂和清水冲洗。 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 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。
眼睛/ Eye	Rinse mouth, give water to drink. 请漱口，喝水。
摄取/ Ingestion	No specific recommendations. 无详细建议。
医生建议/ Advice to physician	

5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media	waterspray, water mist, foam, dry chemical powder, CO ₂ 喷水，水雾，泡沫，干粉灭火器，CO ₂
不适用的灭火媒介 / Unsuitable extinguishing media	None known 不知。
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 _x). 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。
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 contact with skin. Avoid dust generation. 避免接触皮肤。避免粉尘。
火灾爆炸处理/ Fire and explosion prevention	No specific recommendations.
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)



<p>工程学控制/ Engineering controls</p> <p>暴露限制/ Exposure limits</p> <p>名称/ Name: N-(1,3-二甲基丁基)-N'苯基对苯二胺 N-(1,3-dimethyl)-N'-Phenyl-Phenylenediamine</p> <p>个体防护/ Personal protection</p> <p>呼吸器/ Respiratory</p> <p>手/ Hand</p> <p>眼/ Eye</p> <p>皮肤和身体/ Skin and body</p>	<p>Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.</p> <p>避免粉尘产生。确保当地工作场所通风。</p> <p>OES-TWA 5.0 mg/m³</p> <p>Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.</p> <p>避免吸入粉尘。在通风不畅的情况下请佩带相应的呼吸器。</p> <p>Wear suitable gloves.</p> <p>佩戴相应的长手套。</p> <p>Wear safety goggles.</p> <p>佩戴防护眼罩。</p> <p>Wear suitable protective clothing.</p> <p>穿戴相应的保护服装。</p>
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9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)

<p>外观/ Appearance</p> <p>气味/ Odor</p> <p>熔点/ Melting point</p> <p>易燃性/ Flammability</p> <p>爆炸性/ Explosive properties</p> <p>氧化性/ Oxidizing properties</p> <p>比重/ Density</p> <p>溶解性/ Solubility in water</p> <p>PH 值/ pH value</p> <p>n-octanol/water</p>	<p>Dark purple pellet 深紫色颗粒</p> <p>faint, aromatic 微弱的芳香</p> <p>approx. 45 °C</p> <p>not determined</p> <p>not determined</p> <p>not applicable 不适用</p> <p>approx. 1095 kg/m³</p> <p>0.0011 kg/m³ (25 °C)</p> <p>approx. 7</p> <p>not applicable 不能提供</p>	<p>颜色/ Colour</p> <p>沸点/ Boiling point</p> <p>闪点/ Flash point</p> <p>爆炸极限/ Explosion limits</p> <p>自燃温度/ Autoignition temperature</p> <p>蒸汽压/ Vapour pressure</p> <p>体积密度/ Bulk density</p> <p>在其它溶剂中的溶解性 Solubility in other solvents</p> <p>分解系数/ Partition coefficient</p> <p>相对蒸汽密度/ (air=1) Relative vapour density</p>	<p>Dark purple 深紫色</p> <p>not determined (> 300 °C)</p> <p>not determined (> 200 °C)</p> <p>not determined</p> <p>not determined (approx. 500 °C)</p> <p>not determined (approx. 9 mBar at 200 °C)</p> <p>560-580 kg/m³</p> <p>Ethyl acetate, acetone, Methylenechloride</p> <p>Log Pow = 4.77</p> <p>not applicable 不能提供</p>
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10. 稳定性和反应性(STABILITY AND REACTIVITY)

<p>稳定性/ Stability</p>	<p>Stable under recommended storage and handling conditions (see section 7).</p> <p>推荐的稳定储存和搬运条件 (请参照第 7 部分)</p>
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**应避免的情况/ Conditions to avoid****应避免的物质/ Materials to avoid**

Strong oxidising agent.

强氧化剂。

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)

名称/ Name N-(1,3-二甲基丁基)-N'-苯基对苯二胺 N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine

敏感性毒害/ Acute toxicity

口头的/ Oral LD50 老鼠/ rat: 3580 mg/kg.

皮肤的/ Dermal LD50 兔子/ rabbit: >7940 mg/kg.

易愤怒/ Irritation**皮肤/ Skin**

Slightly irritating to skin but not sufficient for classification.

对皮肤有轻微刺激但未达到分级阶段。

眼睛/ Eye

Slightly irritating to eyes but not sufficient for classification.

对眼有轻微刺激但未达到分级阶段。

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name N-(1,3-二甲基丁基)-N'-苯基对苯二胺
N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine

生态学/ Ecotoxicity

鱼/ fish 96h-LC50 (Lepomis macrochirus): 0.4 mg/l.

96h-LC50 (Oncorhynchus mykiss): 0.14 mg/l.

96h-LC50 (Pimephales promelas): 0.45mg/l.

水蚤/ daphnia 48h-EC50 (Daphnia magna): 0.82 mg/l.

藻类/ algae 96h-IC50 (Selenastrum capricornutum): 0.6 mg/l.

初级生物/ Degradation Biotic Shake flask CO₂ evolution assay, CO₂ evolution: 60 %.

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	-	RID 等级/ RID class	-
ADR/RID 包装组成/	-	危害鉴定号/	-
ADR/RID packing group	-	Hazard Identification No.	-
物质鉴定号/	-	UN 号	-
Substance Identification No.	-	UN number	-
适当海运名称/	(N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine)		
Proper Shipping Name	(N-(1,3-二甲基丁基)-N' i-苯基对苯二胺)		

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称	----	IMDG 等级	none
Correct technical name	----	IMDG Class	Environmentally hazardous substance, Solid
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	-	UN 号	-
ICAO-TI/IATA-DGR Class	-	UN number	-
包装组成	-		
Packing group	-		
正确的技术名称	(N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine)		
Correct technical name	(N-(1,3-二甲基丁基)-N' -苯基对苯二胺)		

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description	N-(1,3-dimethyl)-N'-Phenyl--Phenylenediamine N-(1,3-二甲基丁基)-N' -苯基对苯二胺
标签根据 EC 指标/ Labelling according to EC directives	See section 2 查看第 2 部分
EC 号/ EC-number	Annex-1 to directive 67/548/EEC 根据 67/548/EEC 指示
分级标准/ Classification based on	R 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
危险性短语/ R(isk) phrase(s)	R 43 可能导致皮肤接触加剧。 可能导致对水生环境的长期影响。



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安全性短语/ S(afety) phrase(s)

S 20 Do not breathe dust
S 24 Avoid contact with skin
S 37 Wear suitable gloves
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

S 20 不要呼吸灰尘。
S 24 避免接触皮肤。
S 37 佩戴相应的手套。
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)

2 (VwVwS Anhang 3, Nr. 6616)

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.

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