





Operational Office Address: Suite 2610-2611 Foreign Trade Building, 239 Zhongxing Road, Luohu District, Shen Zhen City, P R of China Tel: +86-755-8218 4166 Fax: +86-755- 8218 7033

Email: info@meyor.cn URL: www.rbb.com.cn

HS Code: 29215190.90

SAFETY DATA SHEET: According to EC-directive 2020/878/EC

Rubber Antioxidant 4020(6PPD)

1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)

N-(1,3-二甲基丁基)-N'-苯基 - 对苯二胺 产品标签名/ Product label name

N- (1,3-dimethylbutyl)-N' -phenyl-p-phenylene diamine

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

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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)

N-(1,3-二甲基丁基)-N'-苯基 - 对苯二胺 化学名/ Chemical name

N- (1,3-dimethylbutyl)-N' -phenyl-p-phenylene diamine

CAS 编号/ CAS NO. 793-24-8

产品描述/ Chemical description 深褐色或紫罗兰色颗粒/ dark brown to violet pellet

TSCA NO.编码/ TSCA NO. 无/ none

EINECS 号码/ EINECS NO. 无/ none

其他信息/ Other information Formula: C₁₈H₂₄N₂

3. 危险性概述(HAZARDS IDENTIFICATION)

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHAGHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Toxic to aquatic life with long lasting effects.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Information concerning particular hazards for human and environment

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

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The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3.2 Label elements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H410.

The product is additionally classified and labelled according to the Globally Harmonized System (GHS) within the United States.

The product is classified and labeled according to the CLP regulation.

Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)



GHS07 Eyes Irrit.2



CHSUG

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Toxic to aquatic life with long lasting

Signal word: Warning

Hazard-determining components of labeling: N- (1,3-dimethylbutyl)-N '

-phenyl-p-phenylene diaminedisulphide

The following Hazard Staments are applicable only to the EU regulations and not the US GHS regulation: H410.

H319:Causes serious eye irritation

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements

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

P273:Avoid release to the environment

P264: Wash thoroughly after handling.

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

P337+P313:If eye irritation persists: Get medical advice/attention.

P391:Collect spillage

P501:Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description

WHMIS-symbols



D2B -Toxic material causing other toxic effects.

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NFPA ratings (scale 0-4)



Health = 2 Fire = 1

Reactivity = 0

HEALTH 2
FIRE 1
REACTIVITY 0

Health = 2 Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

HMIS Long Term Health Hazard Substances: Substance is not listed.

3.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

4. 急救措施(FIRST AID MEASURES)

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

bronchitis.

症状和效果/ Symptoms and effects 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

In all cases of doubt, or when symptoms persist, seek medical attention. 通常情况/ General

任何可疑情况,或有任何症状出现,请马上找医生咨询。

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

呼吸新鲜空气。如果有持续症状,请马上就医。

Remove all contaminated clothing immediately. Wash off with plenty of

soap and water.

皮肤/ **Skin** 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

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。

If swallowed, call a physician immediately. Only induce vomiting at the

instruction of a physician. Never give anything by mouth to an

摄取/ Ingestion unconscious person.

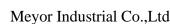
如果吞食了,请立即叫医生。只有在医生指令下呕吐,当一个人昏迷时不

要放任何东西在口中。

医生建议/ Advice to physician Treat symptomatically. Monitor respiratory system function

5. 消防措施(FIRE-FIGHTING MEASURES)

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Waterspray, water mist, foam, dry chemical powder, CO₂ 灭火媒介/ Extinguishing media

喷物,水雾,泡沫,干粉灭火器,CO2

不适用的灭火媒介 Waterjet.

水注(流) / Unsuitable extinguishing media

Emits toxic fumes under fire conditions. 特殊危险/ Special exposure hazards

在火灾情况下释放的有毒烟气。

分解危险/燃烧产品/ Carbon monoxide (CO), carbon dioxide (CO2), nitrous

Hazardous decomposition/ gases (NOx).

Combustion products 一氧化碳,二氧化碳,氮的氧化物。

Wear self-contained breathing apparatus. 保护设备/ Protective equipment

需佩戴空气呼吸器。

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

其他信息/ Other information watercourses.

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

清洁处理方法/ Methods for cleaning up

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。

Avoid discharge into the environment. 环境预防/ Environmental precautions

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 contact with skin and eyes. Avoid dust generation. Take precautionary measures against static discharges. 操作处置/ Handling

避免接触皮肤。避免粉尘。

做好静电预防。

Dust/air mixtures may ignite violently upon exposure to 火灾爆炸处理/

sparks or sources of ignition.

Fire and explosion prevention 粉尘/空气 混合物可能会引起猛烈的爆炸。

> Store in a dry and cool place. Store away from strong oxidizing materials. Avoid exposure to direct sunlight. Do

储存要求/ Storage requirements not double stack.

储存于干燥与阴凉的地方。远离强氧化物质,避免太阳直照,

不要堆积。

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

Avoid dust generation. Ensure good ventilation and local 工程学控制/ Engineering controls exhaustion of the working area.

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手/ Hand

眼/ Eye

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避免粉尘产生。确保当地工作场所通风。

暴露限制/ Exposure limits

名称/ Name: N-(1,3-二甲基丁基)-N'-苯基 - 对苯二胺 N- (1,3-dimethylbutyl)-N' -phenyl-p-phenylene diamine

个体防护/ Personal protection

皮肤和身体/ Skin and body

Avoid breathing dust. In case of insufficient ventilation,

呼吸器/ Respiratory 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.

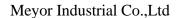
穿戴相应的保护服装。

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

外观/ Appearance	Dark brown to violet Granule	颜色/ Colour	Dark brown to violet 深褐色或紫罗兰色
气味/ Odor	深褐色或紫罗兰色颗粒 Amine-like 与胺相似	沸点/ Boiling point	161°C
终熔点/ Final Melting point	46-51 ℃	闪点/ Flash point	303℉/150.5℃
易燃性/ Flammability	Solid:substance:not (in)flammable.	爆炸极限/ Explosion limits	not applicable 不能提供
爆炸性/ Explosive properties	Dust: dust-explosion hazard (灰尘爆炸危险)	自燃温度/ Autoignition temperature	not applicable 不能提供
氧化性/ Oxidizing properties	not applicable 不适用	蒸汽压/ Vapour pressure	0.00343mmHg(25°C)
比重/ Density	0.986-1.000g/cm³(60°C)	体积密度/ Bulk density	not applicable 不能提供
溶解性/ Solubility in water	insoluble	在其它溶剂中的溶解性 Solubility in other solvents	Oil acetone benzene and toluene 油,丙酮,苯,甲苯
颗粒强度(N)/ Strength of grain(N)	8-10	分解系数/ Partition coefficient	Log Pow = 3.5
n-octanol/water	not applicable 不能提供	相对蒸汽密度/ (air=1) Relative vapour density	not applicable 不能提供
粘性/ Viscosity	not applicable/不能提供	纯度/Assay content % ≥	95

10. 稳定性和反应性(STABILITY AND REACTIVITY)

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Stable under recommended storage and handling conditions

稳定性/ Stability (see section 7).

推荐的稳定储存和搬运条件(请参照第7部分)

Temperatures above 300°C. Avoid contact with strong oxidants 应避免的情况/ Conditions to avoid

温度 300°C 以上。避免接触强氧化剂。

Strong oxidizers

应避免的物质/ Materials to avoid

强氧化剂。

Thermal decomposition products: carbon monoxide (CO), 腐烂分解毒害性产品/

carbon dioxide(CO₂),nitrous gases (NOx).

热分解产品:一氧化碳,二氧化碳,氮的氧化物。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

N- (1,3-二甲基丁基) -N'-苯基 - 对苯二胺 名称/ Name

N- (1,3-dimethylbutyl)-N'-phenyl-p-phenylene diamine

敏感性毒害/ Acute toxicity

Hazardous decomposition products

口头的/ Oral LD50 老鼠/ rat: 900 mg/kg.

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

易愤怒/ Irritation

May cause an allergic skin reaction. 皮肤/ Skin

可能导致皮肤过敏。

May cause redness, swelling, painand tearing. 眼睛/ Eye

可能导致眼红肿,肿胀,疼痛。

12. 生态学资料(ECOLOGICAL INFORMATION)

N-(1,3-二甲基丁基)-N'-苯基-对苯二胺 名称/ Name

N- (1,3-dimethylbutyl)-N'-phenyl-p-phenylene diamine

生态学/ Ecotoxicity

96h-LC50 (Rainbow trout): 0.34 mg/l.

鱼/ fish 96h-LC50 (Bluegill sunfish): 0.43 mg/l.

96h-LC50 (Fathead minnow): 0.41mg/l.

水蚤/ daphnia 48h-EC50 (Daphnia magna): 1.10 mg/l.

藻类/ algae 96h-EC50 (Cell number): 0.50 mg/l.

Fate

Biotic

初级生物/ Degradation

不能被轻易分解/ Not readily biodegradable.

13. 废弃处理(DISPOSAL CONSIDERATIONS)

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产品/ Product

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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。

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

其他信息/ Other information 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/ 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-dimethylbutyl)-N'-phenyl-p-phenylene diamine

Proper Shipping Name N- (1,3-二甲基丁基) -N'-苯基 - 对苯二胺

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称 IMDG 等级

Correct technical name IMDG Class

Packaging group

EMS 号/ EMS Number Not relevant ----

空运/ Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 等级 UN 号 not restricted

ICAO-TI/IATA-DGR Class UN number

包装组成

Packing group

正确的技术名称 (N- (1,3-dimethylbutyl)-N' -phenyl-p-phenylene diamine)

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)

N- (1,3-dimethylbutyl)-N' -phenyl-p-phenylene diamine

化学品描述/ Chemical description

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

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EC 号/ EC-number

分级标准/ Classification based on

危险性短语/ R(isk) phrase(s)

安全性短语/ S(afety) phrase(s)

其他信息/ Other information

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See section 2 查看第 2 部分

Annex-1 to directive 67/548/EEC

根据 67/548/EEC 指示

R 43 May cause sensitization by skin contact

May cause long-term adverse effects in the aquatic

environment

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。 S 24 Avoid contact with skin

S 37 Wear suitable gloves

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 24 避免接触皮肤。 S 37 佩戴相应的手套。

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。

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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