



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

SAFETY DATA SHEET: According to EC-directive 2001/58/EC

Rubber Antioxidant 4010NA(IPPD)

HS Code: 29215190.90

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

N-异丙基-N'-苯基对苯二胺 产品标签名/ Product label name

N-isopropyl-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

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)

N-异丙基-N'-苯基对苯二胺 化学名/ Chemical name

N-isopropyl-N'-phenyl-p-phenylene diamine

CAS编号/ CAS NO. 101-72-4

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: C₁₅H₁₈N₂

3. 危险性概述(HAZARDS IDENTIFICATION)

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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



GHS09 Environment Aquatic Acute H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 1

GHS07

H302 Harmful if swallowed.

 $\langle ! \rangle$

Acute Tox. 4
H317 May cause an allergic skin reaction

Skin Sens. 1

Classification according to Directive 67/548/EEC or Directive 1999/45/EC





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×

Xn; Harmful

R22

Harmful if swallowed.

×

Xi; Sensitizing

May cause sensitization by skin contact.

XY.

N; Dangerous for the

Very toxic to aquatic organisms; may cause long-term environment.

adverse effects in the aquatic R50/53

Information concerning particular hazards for human and environment: Not appliable

3.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS07 GHS0

Signal word: Warning

Hazard-determining components of

labeling N-isopropyl-N'-phenyl-p-

phenylenediamine N-(4-

aminophenyl)aniline

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

P261 Avoid breathing dust.
P264 Wash thoroughly after handling.

P301+P312 IFSWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

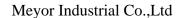
Additional information: Contains N-isopropyl-N'-phenyl-p-phenylenediamine, N-(4-aminophenyl)aniline. May produce an allergic reaction.

Hazard description WHMIS-symbols



D2B -Toxic material causing other toxic effects.







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NFPA ratings (scale 0-4)

2 0

Health = 2 Fire = 1

Reactivity = 0

Health = 2

Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH 2
FIRE 1
REACTIVITY 0

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

通常情况/ General

吸入/ Inhalation

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。

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。

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

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

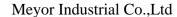
instruction of a physician. Never give anything by mouth to an

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





其他信息/ Other information



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

避免消防水接触下水道,土地或水源。

5. 消防措施(FIRE-FIGHTING MEASURES)

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 (NO_x). **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。

watercourses.

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

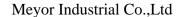
	For personal protection see Section 8. Avoid dust
个人防范/ Personal precautions	generation.
	对于个人防范请参照第8部分。避免粉尘的产生。
环境预防/ Environmental precautions	Avoid discharge into the environment.
	避免流入环境之中。
	Collect as much as possible in a clean container for
清洁处理方法/ Methods for cleaning up	(preferable) reuse or 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.	
操作处置/ Handling	Take precautionary measures against static discharges.	
操作处值/ nationing	避免接触皮肤。避免粉尘。	
	做好静电预防。	
ルケス機 Mc 51 791 /	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)

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







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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-异丙基-N'-苯基对苯二胺

N-isopropyl-N'-phenyl-p-phenylene diamine

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带相应的呼吸器

0

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.

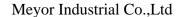
穿戴相应的保护服装。

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

粘性/ Viscosity	not applicable/不能提供	纯度/Assay content % ≥	95
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
颗粒强度(N)/ Strength of grain(N)	8-10	分解系数/ Partition coefficient	Log Pow = 3.5
溶解性/ Solubility in water	insoluble	在其它溶剂中的溶解性Solu bility in other solvents	Oil acetone benzene and toluene 油,丙酮,苯,甲苯
比重/ Density	1.180-1.190g/cm ³ (20°C)	体积密度/ Bulk density	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)
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
易燃性/ Flammability	Solid:substance:not (in)flammable.	爆炸极限/ Explosion limits	not applicable 不能提供
熔点/ Melting point	≥70°C	闪点/ Flash point	303°F/150.5°C
气味/ Odor	Amine-like 与胺相似	沸点/ Boiling point	161°C
外观/ Appearance	Dark brown to violet Granule 深褐色或紫罗兰色颗粒	颜色/ Colour	Dark brown to violet 深褐色或紫罗兰色

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

应避免的物质/ Materials to avoid



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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

温度300°C以上。避免接触强氧化剂。

Strong oxidizers

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).

Hazardous decomposition products 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-异丙基-N'-苯基对苯二胺 名称/ Name

N-Isopropyl-N'-phenyl-p-phenylenedia mine

敏感性毒害/ Acute toxicity

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-异丙基-N'-苯基对苯二胺 名称/ Name

N-Isopropyl-N'-phenyl-p-phenylenedia mine

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

初级生物/ Degradation

不能被轻易分解/ Not readily biodegradable.

Biotic

13. 废弃处理(DISPOSAL CONSIDERATIONS)

产品/ Product Avoid discharge into the environment.



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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.

根据当地规定。

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)

包装污染/ Contaminated packaging

其他信息/ Other information





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14.1 UN-Number		
DOT,	N/A	
ADR, IMDG, IATA 14.2 UN proper shipping name:		
DOT		
	N/A	
ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O. S (N-isopropyl-N'-phenylp-phenylenediamine)	
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (N-isopropyl-N'-phenylp-phenylenediamine), MARINE POLLUTANT	
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCESOLID,	
	N.O.S (N-isopropyl-N'-phenylp-phenylenediamine)	
14.3 Transport hazard class(es)		
DOT,Class ADR	N/A	
₼ ♠	articles. Label:	
	Label: 9	
	Label: 9	
14.4 Packing group		
DOT	N/A	
ADR,IMDG,IATA	III	
Product contains environmentally hazardous substances:		
14.5 Environmental hazards	(N-isopropyl-N'-phenylp-phenylenediamine)	
Marine pollutant	Yes	
	Symbol(fish and tree)	
Special Marking (ADR)	Symbol (fish and tree)	
Special Marking (IATA)	Symbol(fishandtree)	
14.6 Special precautions for user		
Danger code (Kemler)		
EMS Number	F-A, S-F.	
	and a fMADDOL 70/70 and the IDO Order Nat	
·	ex II of MARPOL73/78 and the IBC Code: Not	
applicable. Transport/Additional information	ation	
ADR		
Limited quantities (LQ)	5kg	
Transport category		
Tunnel restriction code	E	
UN "Model Regulation"	ENVIRONMENT ALLY HAZ ARDO US SUBSTANCE, SOLID, N.	
	O.S. (N-isopropyl-N'-phenyl-p-phenylenediamine), 9, III	

15. 法规信息(REGULATORY INFORMATION)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

SARA Section 355 (extremely hazardous substances)	Substance is not listed.
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SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%)	101-54-2 N-(4-aminophenyl)
	aniline.
Canadian Ingredient Disclosure list (limit 1%)	101-72-4 N-isopropyl-N'-
	phenyl-p-phenylenediamine

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. 其他信息(OTHER INFORMATION)

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H317 May cause an allergic skin

reaction. H319 Causes serious eye irritation.

H400 Very toxic to aquatic life. R22 Harmful if swallowed.

R36 Irritating to eyes.

R43 May cause sensitization by skin contact

R50 Very toxic to aquatic

organisms. Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous

Goods DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals ACGIH: American Conference of Governmental Industrial

Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)



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