



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: 38123100.00

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

Rubber Antioxidant TMQ(RD)-HQ

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

2, 2, 4-三甲基-1, 2-二氢化喹啉聚合物 产品标签名/ Product label name

Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

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

日期/**Date** 2019-9-29

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

化学名/ Chemical name

Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

CAS 编号/ CAS NO. 26780-96-1

产品描述/ Chemical description 琥珀色或棕色颗粒/Amber to brown granule

TSCA NO.编码/ TSCA NO. 无/ none

EINECS 号码/ EINECS NO. 无/ none

聚合物含量/Polymer Content 98%

杂质/Impurity 2%

其他信息/ Other information Formula: (C₁₂H₁₅N)n.

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 subsstance is not classified according to the Globally Harmonized System(GHS)

The subsstance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:Not appliable

Information concerning particular hazands for human and environment:Not appliable





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

3.2 Label elements

Labeling according to Regulation (EC) No 1272/2008:N/A

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

Hazard pictograms:N/A

Signal word: N/A

Hazard statements: N/A

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

Hazard description

WHMIS-symbols:Not hazardous under WHMIS

NFPA ratings (scale 0-4)

HMIS ratings (scale 0-4)

110

HEALTH 1
FIRE 1
REACTIVITY 0

Health = 1

Fire = 1

Reactivity = 0

Health = 1

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

吸入/ Inhalation

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.

呼吸新鲜空气。如果有持续症状,请马上就医。

Back Skin Wash immediately with soap and water.

立即用肥皂和清水冲洗。

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。



医生建议/ Advice to physician



摄取/ Ingestion

Meyor Industrial Co.,Ltd

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

Only when conscious, rinse mouth, give plenty of water to drink. Don't

induce vomiting. Seek medical advice.

用大量的水清洗嗽口, 不引起呕吐, 求医。

No specific recommendations.

无详细建议。

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.

/ Unsuitable extinguishing media 水注(流)

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/

其他信息/ Other information

Hazardous decomposition/

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。

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

尽可能的将其收集在清洁的容器里以便回收或集中处理。

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.
对于个人防范请参照第 8 部分。避免粉尘的产生。
Do not flush into public water courses .Avoid discharge into the environment.
不要用公共水资源冲洗。避免流入环境之中。
Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. 操作处置与储存(HANDLING AND STORAGE)

Avoid dust generation. The usual precautions for handling 操作处置/ **Handling** chemicals should be observed.

避免粉尘。遵守一般化学操作规则。

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. 储存要求/ Storage requirements

储存于干燥与阴凉的地方。





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

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.

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: 2,2,4-三甲基一1,2-二氢化喹啉聚合物 Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

no exposure limit has been established

个体防护/ Personal protection

皮肤和身体/ Skin and body

手/ Hand

眼/ Eye

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 protective gloves. PVC or rubber gloves.

佩戴能保护的聚乙烯酯或橡胶手套。

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)

| 5. 物建作化于N 压(I III 010) | TE / TITE STIEMING TE | Tito: Eitiles) | |
|------------------------------|------------------------------------|---|---|
| 外观/ Appearance | Amber to brown granule 琥珀色或棕色颗粒 | 颜色/ Colour | Amber to brown 琥珀色或棕色 |
| 气味/ Odor | faint, aromatic 微弱的芳香 | 沸点/ Boiling point | not applicable 不能提供 |
| 熔点/ Melting point | 85.0-95.0℃ | 闪点/ Flash point | 243 °C |
| 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 | Negligible 可忽略 |
| 比重/ Density | 1.09 g/cm³ (20 °C) | 体积密度/ Bulk density | 600-630 kg/m³ |
| 溶解性/ Solubility in water | 0.0025-0.0032 kg/m³ (25 °C) | 在其它溶剂中的溶解性 Solubility in other solvents | Acet,benzene,chloroform, carbon bisalfide |
| PH 值/ pH value | approx.7(Aqueous dispersion) | 分解系数/ Partition coefficient | Log Pow = 3.22 |
| 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 |
| Streng of grain(N) | 0.6-2.5 | | |





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

颗粒强度(N)

10. 稳定性和反应性(STABILITY AND REACTIVITY)

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)

Heat, sources of heat,naked flames,sparks 应避免的情况/ Conditions to avoid

热源, 火源, 火花

strong oxidising agents

强氧化剂

分解毒害性产品/
Thermal decomposition products: carbon monoxide

(CO),,nitrous gases (NOx)..

Hazardous decomposition products

热分解产品: 一氧化碳,氮的氧化物。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

2, 2, 4-三甲基-1, 2-二氢化喹啉聚合物 **名称/ Name**

Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

敏感性毒害/ Acute toxicity

应避免的物质/ Materials to avoid

口头的/ Oral LD50 老鼠/ rat: 2225 mg/kg.

皮肤的/ Dermal LD50 兔子/ rabbit: <5010 mg/kg.

易愤怒/ Irritation

Non- irritating to skin .

对皮肤没有刺激。

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)

2, 2, 4-三甲基-1, 2-二氢化喹啉聚合物 **名称/ Name**

Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

生态学/ Ecotoxicity

96h-LC50 (Lepomis macrochirus): 54 mg/l.

鱼/ fish 96h-LC50 (Oncorhynchus mykiss): 50 mg/l.

96h-LC50 (Pimephales promelas): 64mg/l.

水蚤/ daphnia 48h-EC50 (Daphnia magna): 5.8 mg/l.

藻类/ algae 96h-IC50 (Selenastrum capricornutum): >1000 mg/l.

Fate

初级生物/ Degradation

不能被轻易分解/ Not readily biodegradable.





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

13. 废弃处理(DISPOSAL CONSIDERATIONS)

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.
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)

| 14. 发现自心(INANOI ON INI ONIA IION) | | | |
|---|--|--|--|
| 14.1 UN-Number | | | |
| DOT, ADR, IMDG, IATA | N/a | | |
| 14.2 UN proper shipping name: | | | |
| DOT, ADR, IMDG, IATA | N/A | | |
| 14.3 Transport hazard class(es) | | | |
| DOT, IMDG, IATA | N/A | | |
| 14.4 Packing group | | | |
| DOT,ADR, IMDG, IATA | N/A | | |
| 14.5 Environmental hazards | | | |
| Marine pollutant | NO | | |
| 14.6.Special precautions for user | Not appliable | | |
| 14.7 Transport in bulk according to Annex II of | MARPOL73/78 and the IBC Code:Not applicable. | | |
| Transport/Additional information | | | |

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 | Substance is not listed. | | |
| substances) | | | |
| 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 | Substance is not listed. | | |



MEYORS-RBE



Meyor Industrial Co.,Ltd

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

| Cancer) | | | |
|--|--------------------------|--|--|
| TLV (Threshold Limit Value established by | Substance is not listed. | | |
| ACGIH) | | | |
| NIOSH-Ca (National Institute for Occupational | Substance is not listed. | | |
| Safety and Health) OSHA-Ca (Occupational Safety & Health | Substance is not listed. | | |
| Administration) | oubstance is not listed. | | |
| Canada | | | |
| Canadian Domestic Substances List (DSL) | Substance is listed. | | |
| Canadian Ingredient Disclosure list (limit 0.1%) | Substance is not listed. | | |
| Canadian Ingredient Disclosure list (limit 1%) | Substance is not listed. | | |

^{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. 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)

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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)