

**SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber strengthening agent TiO<sub>2</sub>-80****HS Code: 28112900.90****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	TiO <sub>2</sub> -80 深圳市华起达实业有限责任公司 Meyors Chemical INC Limited 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	橡胶补强剂/ Rubber strengthening agent

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

化学名/ Chemical name	二氧化钛 Titanium dioxide
CAS 编号/ CAS NO.	1317-70-0
产品描述/ Chemical description	淡黄色颗粒/ Light yellow granule
TSCA NO. 编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none

**3. 危险性概述(HAZARDS IDENTIFICATION)**

这种物质可能对肺，上呼吸道有毒害，长期暴露在这种物质下会对身体有伤害	The substance may be toxic to lungs, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.
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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.



	<p>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</p>
<b>眼睛/ Eye</b>	<p>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。</p>
<b>医生建议/ Advice to physician</b>	<p>No specific recommendations. 无详细建议。</p>

## 5. 消防措施(FIRE-FIGHTING MEASURES)

<b>灭火媒介/ Extinguishing media</b>	<p>foam, dry chemical powder, CO<sub>2</sub> 泡沫, 干粉灭火器, CO<sub>2</sub></p>
<b>特殊危险/ Special exposure hazards</b>	<p>A violent or incandescent reaction with metals (aluminum, calcium, potassium, sodium, zinc, and lithium) may occur at high temperatures. 在高温下可能会和铝, 钙, 钾, 锌和锂等发生反应。</p>
<b>保护设备/ Protective equipment</b>	<p>Wear self contained breathing apparatus. 需佩戴空气呼吸器。</p>
<b>其他信息/ Other information</b>	<p>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。</p>

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

<b>个人防范/ Personal precautions</b>	<p>For personal protection see Section 8. 对于个人防范请参照第 8 部分。</p>
<b>环境预防/ Environmental precautions</b>	<p>Avoid discharge into the environment. 避免流入环境之中。</p>
<b>清洁处理方法/ Methods for cleaning up</b>	<p>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。</p>

## 7. 操作处置与储存(HANDLING AND STORAGE)

<b>操作处置/ Handling</b>	<p>Do not breathe dust. Wear suitable protective clothing. Keep away from incompatibles such as acids. 不要吸入粉尘, 穿戴合适的防护服。 远离与之性质相反的物质, 比如说酸。</p>
<b>储存要求/ Storage requirements</b>	<p>Store in a dry and cool place. 储存于干燥与阴凉的地方。</p>

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

<b>工程学控制/ Engineering controls</b>	<p>Ensure good ventilation and local exhaustion of the working area. 确保当地工作场所通风。</p>
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**暴露限制/ Exposure limits****个体防护/ Personal protection****呼吸器/ Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

在通风不畅的情况下请佩带相应的呼吸器。

**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)**

<b>外观/ Appearance</b>	Light yellow granule 淡黄色颗粒	<b>颜色/ Colour</b>	Light yellow 淡黄色
<b>气味/ Odor</b>	Tasteless. 无味	<b>沸点/ Boiling point</b>	2750°C
<b>熔点 (活性 TiO<sub>2</sub>) / Melting point(active TiO<sub>2</sub>)</b>	≥119°C	<b>闪点/ Flash point</b>	--
<b>易燃性/ Flammability</b>	--	<b>爆炸极限/ Explosion limits</b>	---
<b>爆炸性/ Explosive properties</b>	---	<b>自燃温度/ Auto-ignition temperature</b>	----
<b>比重/ Density</b>	1.28±0.04 g/cm <sup>3</sup>	<b>颗粒强度 Strength of grain(N)</b>	1.2-1.8
<b>溶解性/ Solubility in water</b>	Insoluble in cold water 不溶于水。	<b>在其它溶剂中的溶解性 Solubility in other solvents</b>	Soluble in sulfuric acid, hydrofluoric acid, alkali. 溶于硫酸, 氢氟酸和碱。
<b>门尼粘度/ Mooney Viscosit(ML 1+4@50 °C) &lt;</b>	45±10	<b>Residues (100um)% Max 筛余物</b>	0.1(Max)

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

<b>稳定性/ Stability</b>	The product is stable. 产品很稳定
<b>应避免的物质/ Materials to avoid</b>	Strong acid and alkalis 强酸, 强碱
<b>腐烂分解毒性产品/ Hazardous decomposition products</b>	None

**11. 毒理学资料(TOXICOLOGICAL INFORMATION)**

<b>名称/ Name</b>	二氧化钛
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Titanium dioxide

**敏感性毒害/ Acute toxicity**

口头的/ Oral LD50 -----

皮肤的/ Dermal LD50 -----

**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**

Dust may cause mechanical irritation

粉尘可能对眼睛产生机械刺激。

**12. 生态学资料(ECOLOGICAL INFORMATION)****名称/ Name**

二氧化钛

Titanium dioxide

**生态学/ Ecotoxicity****鱼/ fish**

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**生物降解的毒害****Toxicity of Biodegradation**

Possibly hazardous short- term degradation products are not likely. However, long term degradation products may arise.

短期没什么危害，但是长期的降解危害可能会出现。

**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**

III

**Hazard Identification No.****物质鉴定号/**

3077

**UN 号**

3077

**Substance Identification No.****UN number**



适当海运名称/ Proper Shipping Name	(A proprietary predispersed 80% Rutile TiO <sub>2</sub> in a 20% elastomeric/ processing aids binder) TiO <sub>2</sub> -80		
海运/ Sea transport (IMDG-code/ IMO)			
正确的技术名称 Correct technical name	----	IMDG 等级 IMDG Class	none
UN 号码/ UN Number	Not relevant	包装组成 Packaging group	III
EMS 号/ EMS Number	Not relevant		----
空运/ Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR 等级 ICAO-TI/IATA-DGR Class		UN 号 UN number	3077
包装组成 Packing group	Environmentally hazardous substance, Solid 对环境有害的物质, 固体。		
正确的技术名称 Correct technical name	(A proprietary predispersed 80% Rutile TiO <sub>2</sub> in a 20% elastomeric/ processing aids binder) TiO <sub>2</sub> -80		

### 15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description	二氧化钛 Titanium dioxide
标签根据 EC 指标/ Labelling according to EC directives	
EC 号/ EC-number	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
危险性短语/ R(isk) phrase(s)	R 20/21/22 /36/37/38 Harmful by inhalation, in contact with skin and if swallowed. R 20/21/22 /36/38 吸入, 接触皮肤, 吞食有害。
安全性短语/ S(afety) phrase(s)	S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36 Wear suitable protective clothing. S 24 接触到眼睛立即用水冲洗, 遵循医嘱。 S 37 穿着合适的防护服。
其他信息/ Other information	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

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



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**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.**

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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Meyors