

**SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Active Fillers Titanium Dioxide R232****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	钛白粉 R232 Titanium Dioxide R232 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	橡胶填充剂/ Active Fillers

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

化学名/ Chemical name	钛白粉 R232 Titanium Dioxide R232
CAS 编号/ CAS NO.	13463-97-7
产品描述/ Chemical description	白色粉末/White powder
TSCA NO.编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	Formula: TiO2

3. 危险性概述(HAZARDS IDENTIFICATION)

皮肤，眼睛接触，摄取，有轻微的伤害。	Slightly hazardous in case of skin contact , of eye contact , of ingestion,
吸入对肺可能有毒。	of inhalation. The substance may be toxic to lungs,

4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. 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。
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。 如果出现红肿症状请立即就医。衣物重新使用前需洗涤干净。
眼睛/ Eye	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。如果出现过敏症状请就医。
摄取/ Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. 不要引起呕吐除非有医生在, 不要放任何东西在昏迷者口中, 如果吞食的量较大, 立即叫医生。
医生建议/ Advice to physician	No specific recommendations. 无详细建议。

5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media	foam, dry chemical powder, CO ₂
不适用的灭火媒介 / Unsuitable extinguishing media	泡沫, 干粉灭火器, CO ₂ waterjet. 水注 (流)
特殊危险/ Special exposure hazards	Not available.
分解危险/燃烧产品/ Hazardous decomposition/ combustion products	Not available.
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	Do not breathe dust. Wear suitable protective clothing. Keep away from incompatibles such as acids.
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不要呼吸灰尘。穿戴防护服。远离酸类物质。

储存要求/ Storage requirements

Store in a cool area away from ignition sources, heat, acids.
储存于阴凉的地方远离火源, 热源, 酸。

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 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: TiO₂

ACGIH 10mg/m³

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戴相应的呼吸器。

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)

外观/ Appearance	White powder 白色粉末	颜色/ Colour	White 白色
气味/ Odor	None reported 无报道	沸点/ Boiling point	2900°C
熔点/ Melting point	----	闪点/ Flash point	not determined
易燃性/ Flammability	flammability	爆炸极限/ Explosion limits	not determined
爆炸性/ Explosive properties	not determined	自燃温度/ Autoignition temperature	not determined
氧化性/ Oxidizing properties	not applicable 不适用	蒸汽压/ Vapour pressure	not determined
分散性(μ m)/ Dispensability(μ m)	----	二氧化钛含量 %/ TiO ₂ Content (%)	≥92
溶解性/ Solubility in water	None	在其它溶剂中的溶解性/ Solubility in other solvents	Slightly soluble in alkali 微溶于碱
筛余物(45um)%/ Residues (45um)%	≤0.10	分解系数/ Partition coefficient	not determined
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

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).



推荐的稳定储存和搬运条件（请参照第 7 部分）

应避免的情况/ Conditions to avoid	Not available.
应避免的物质/ Materials to avoid	strong acid. 强酸。
分解毒性产品/ Hazardous decomposition products	Not available.

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name	钛白粉 R232 Titanium Dioxide R232
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	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	钛白粉 R232 Titanium Dioxide R232
生态学/ Ecotoxicity	
鱼/ fish	-----
水蚤/ daphnia	-----
初级生物/ Degradation Biotic	不能被轻易分解/ Not readily biodegradable.

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/

UN 号

Substance Identification No.

3077

UN number

3077

Environmentally hazardous substance, solid, n.o.s.

适当海运名称/

(Titanium Dioxide R232)

Proper Shipping Name

环境危害物质, 固体, n.o.s

钛白粉 R232

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称

IMDG 等级

none

Correct technical name

IMDG Class

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

3077

ICAO-TI/IATA-DGR Class

UN number

包装组成

Environmentally hazardous substance, Solid

Packing group

对环境有害的物质, 固体。

Environmentally hazardous substance, solid, n.o.s.

正确的技术名称

(Titanium Dioxide R232)

Correct technical name

环境危害物质, 固体, n.o.s

钛白粉 R232

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description

钛白粉 R232

Titanium Dioxide R232

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 53 may cause long-term adverse effects in the aquatic environment

R 53 可能导致对水生环境的长期影响。

S 37 Wear suitable gloves

安全性短语/ S(afety) phrase(s)

S 60 This material and its container must be disposed of as hazardous waste



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其他信息/ Other information**Wassergefährdungsklasse (WGK)**

S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

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。