

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Zinc Oxide ZnO 99%****HS Code: 28170010.00****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	ZnO 99%
供应商/ Supplier	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 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	活化剂/Promoting agent

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

化学名/ Chemical name	氧化锌 Zinc Oxide
CAS 编号/ CAS NO.	1314-13-2
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

3. 危险性鉴定(HAZARDS IDENTIFICATION)

可能导致机械磨损, 燃烧或热分解是可能会释放刺激气体。	May cause mechanical irritation (abrasion). Irritating gases/fumes may be given off during burning or thermal decomposition.
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4. 急救措施(FIRST AID MEASURES)

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。 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。



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。如果出现愤怒症状请就医。
摄取/ Ingestion	If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention. 如果摄取，在医务人员的指导下才能引起呕吐。
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	waterspray, water mist, foam, dry chemical powder, CO ₂ 喷物，水雾，泡沫，干粉灭火器，CO ₂
特殊防火规程/Special Fire Fighting Procedures	Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes avoid dusting 消防人员应该装备呼吸器械来保护潜在的毒性和烟气，避免粉尘。
保护设备/ Protective equipment	Wear self contained breathing apparatus. 需配戴空气呼吸器。
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)

存储温度/ Storage Temperature	50°C
储存要求/ Storage requirements	Store in a dry and cool place. 储存于干燥与阴凉的地方。

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

工业卫生/Industrial Hygiene	General dilution and local exhaust as necessary to control Airborne vapors, miss dusts and thermal decomposition
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products below appropriate airborne concentration standards/guidelines.

通过稀释来使本地的粉尘和热分解产品的浓度低于相关空气监测机构的标准。

暴露限制/ Exposure limits

名称/ Name: 活性氧化锌

Active Zinc Oxide

TWA 2.0 mg/m³ (ACGIH Threshold Limit Values)

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/ Odour	Tasteless 无味	沸点/ Boiling point	not applicable 不能提供
熔点/ Melting point	1975℃	闪点/ Flash point	not applicable 不能提供
易燃性/ Flammability	not applicable 不能提供	爆炸极限/ Explosion limits	not applicable 不能提供
爆炸性/ Explosive properties	not applicable 不能提供	自燃温度/ Auto ignition temperature	not applicable 不能提供
氧化性/ Oxidizing properties	not applicable 不能提供	蒸汽压/ Vapour pressure	not applicable 不能提供
比重/ Density	5.47-5.67 g/cm ³ (25℃)	体积密度/ Bulk density	Appox.250kg/m ³
溶解性/ Solubility in water	Insoluble	在其它溶剂中的溶解性 Solubility in other solvents	Acid, ammonia water 酸,氨水
PH 值/ pH value	not applicable 不能提供	分解系数/ Partition coefficient	not applicable 不能提供
粘性/ Viscosity	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



稳定

应避免的情况/ Conditions to avoid

None known

应避免的物质/ Materials to avoid

None known

腐烂分解毒性产品/

Hazardous decomposition products

Thermal decomposition products: Zinc oxide fumes, other potentially toxic fumes

热分解产品: 氧化锌气体和其他的潜在的有毒气体。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name

氧化锌/ Zinc Oxide

敏感性毒害/ Acute toxicity

口头的/ Oral LD50

老鼠/ rat: >5000 mg/kg.

皮肤的/ Dermal LD50

兔子/ rabbit: Non-irritating (exposure time: 24hrs)

易愤怒/ Irritation

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name

氧化锌/ Zinc Oxide

No information considerations/没参考信息

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

Hazard Identification No.



物质鉴定号/ Substance Identification No.	3077	UN 号 UN number	3077
适当海运名称/ Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (99% of Zinc Oxide) 环境危害物质, 固体, n.o.s (ZnO-99%)		
海运/ Sea transport (IMDG-code/ IMO)			
正确的技术名称 Correct technical name	----	IMDG 等级 IMDG Class	----
UN 号码/ UN Number	----	包装组成 Packaging group	----
EMS 号/ EMS Number	----		----
空运/ Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR 等级 ICAO-TI/IATA-DGR Class		UN 号 UN number	3077
正确的技术名称 Correct technical name	Environmentally hazardous substance, solid, n.o.s. (99% of Zinc Oxide) 环境危害物质, 固体, n.o.s (ZnO-99%)		

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description	Zinc Oxide 氧化锌
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 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
安全性短语/ S(afety) phrase(s)	S 24 避免接触皮肤。 S 37 配戴相应的手套。 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。
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 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。