

## 广州白云信港化工有限公司

### MATERIAL SAFETY DATA SHEET

### 物質安全資料表

一. Identifications of Substance and Company 物品與廠商資料

1.1 Product Name: RUBBER REINFORCING FILLER

物品名稱:活性鋅氧粉

1.2 Producer(supplier): GUANZHOU BAIYUN XINGGONG CHEMICAL LTD

製造商 (供應商名稱): 廣州白雲信港化工有限公司

1.3 Address: 204,FLOOR 2,BUILDING D, NO.206,YUEXI STREET, TONGDE STREET,BAIYUN DISTRICT,GUANGZHOU

地址: 廣州市白雲区同德街粤溪大街 206 号 D 栋二楼 204

1.4 Phone: 020-86488586

二. Composition /Information on Ingredients

成份辨識資料

2.1 Zinc compound CAS NO: 1314-13-2

>53% 化学文摘登记号:

2.2 Moisture

锌化合物

水分 ≤3%

2.3 Other additives CAS NO: Not applicable

其他助剂 ≤44% 化学文摘登记号:不适用

2.4 Chemical name: Zinc Oxide

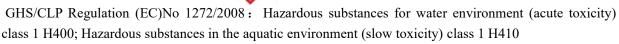
化学名称: 氧化锌

#### 三. Hazards Identifications

危害辨識資料

3.1 Hazard class

危險性類別 GHS09 environment



GHS/CLP 规例(EC)第 1272/2008 号: 水环境之危害物质(急毒性)第 1 级 H400; 水环境之危害物质(慢毒性)第 1 级 H410

3.2 Health hazard: Repeated contact is irritating to the skin and eyes.Inhalation may cause thirst, itching, ingestion may cause nausea, vomiting.

健康危害: 反复接触对皮肤有刺激,对眼睛有刺激。吸入可能出現口渴、咽痒,食入可能出現惡心、嘔吐。

3.3 Environmental hazard: It may cause long-term harmful effects in the aquatic environment. 環境危害: R50/53 对水生生物有毒,在水生环境可能会引起长期有害作用。

3.4 Safety suggestions: S60 (substances and containers must be placed as hazardous waste), S61 (prevent discharge to the environment)

安全建议: S60 (物质及容器必须按危险废物放置)、S61 (防止排向环境)

3.5 Explosion hazard: Non-combustible

燃爆危險: 本品不燃

#### 四. First-aid Measures

急救措施

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- 4.1 Inhalation: Move to fresh air. If breathing is difficult, give oxygen and send to a doctor immediately. 吸入: 移至新鮮空氣處。如呼吸困难,给输氧,立即送醫。
- 4.2 Skin contact: Take off contaminated clothes and wash with soapy water and running water. 皮膚接觸: 脱去污染衣着,用肥皂水和流動清水冲洗。
- 4.3 Eye contact: Lift the eyelids, rinse them with flowing water or normal saline for 15 minutes and send them to hospital immediately.

眼睛接觸: 提起眼睑,用流動的清水或生理盐水沖洗 15 分钟,立即送醫。

4.4 Eating: Brush your mouth thoroughly and take milk, soybean milk or egg white orally. If you swallow too much, please send to a doctor immediately.

食入: 徹底刷口,口服牛奶、豆浆或蛋清,如吞食過量,請立即送醫。

#### 五. Fire-fighting Measures

滅火措施

- 5.1 Extinguishing Media: Use water mist, chemical dry powder, foam or carbon dioxide extinguisher 適用滅火劑:用水雾、化学干粉、泡沫或二氧化碳灭火剂
- 5.2 Not suitable for fire cutting: there is no limit to the extinguishing agent applied to this substance or mixture. 不適用滅火劑: 施用于此物质或混合物的灭火剂无限制。
- 5.3 Hazardous combustion products: ZnO 有害燃燒產物: 氧化鋅
- 5.4 Firemen should wear fire-resistant or fire-resistant clothing, face mask, helmet and gloves, and positive pressure self-contained breathing equipment (SCBA).

灭火注意措施及防护措施:消防人员需穿戴耐火或防火的衣服,同时穿戴面罩,头盔和手套,正压自给式呼吸设备(SCBA)。

5.5 Fire extinguishing guidance: Prevent dilution of the controlled area from entering rivers, sewers or drinking water supplies.

灭火指导:防止控区的稀释流出进入河流、下水道或饮用水供应系统。

#### 六. Accidental Release Measures

洩漏處理方法

- 6.1 Small amount of leakage: Avoid raising dust, sweep it carefully and collect it in a closed container. It can also be washed with a large amount of water and diluted into the wastewater system.
  - 小量泄漏:避免扬尘,小心扫起,收集于密闭容器中。也可用大量水冲洗,洗水稀释后放入废水系统。
- 6.2 Massive leakage: Collect, recycle or transport to waste treatment site for disposal.

大量泄漏: 收集回收或运至废物处理场所处置。

6.3 Other: Avoid drainage into the sewer

其它:避免排入下水道

#### 七. Safe operation and Storage

安全操作與儲存方法

7.1 Operational matters: Closed operation, local exhaust. Wear dust masks, eye protection, latex gloves and protective clothing. Lightly load and unload, Wash thoroughly with water and soap after work.

操作事項: 密閉操作,局部排風。佩帶防塵口罩,防護眼睛,乳膠手套及防護服。工作完后应用水和肥皂彻底清洗。

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7.2 Storage method: Store in a cool, dry and ventilated warehouse, away from heat and ignition sources. Separate from acid, base and oxidizer. Separate from magnesium and chlorinated rubber. 儲存方法: 儲存於陰涼乾燥通風的庫房,遠離熱及引火源。與酸、碱、氧化劑分開存放。與镁、氯化橡胶分開存放。

#### 八. Contact and Precaution

接觸與防護措施

8.1 Occupational exposure concentration

职业暴露浓度

- 1. 8 hour-TWA (mg/m3)
- 1. 八小时日时量平均容许浓度: 5 mg/m3
- 2. 15 min-STEL (mg/m3)
- 2. 短时间时量平均容许浓度: 10 mg/m3
- 3. PEL-CEILING
- 3. 最高容许浓度: --
- 8.2 Respiratory protection: 1. 50~125 mg/m3: Constant flow oxygen supply breathing protection; Or anti-dust, fog drops and smoke of the dynamic air quiet breathing protection.

呼吸系统防护: 1.50~125 mg/m3: 定流量式供氧式呼吸防护具; 或防粉尘、雾滴及烟熏之动力型空气清静式呼吸防护具。

250 mg/m3: full type air 滤 clean breathing protection with high efficiency 滤 material; Or comprehensive self-carrying respirator; Or all - round oxygen - supplied breathing protection equipment.

250 mg/m3: 具高效率滤材之全面型空气滤清式呼吸防护具;或全面型自携式呼吸防护具;或全面型供氧式呼吸防护具。

8.3 Eye protection: If contact is likely, protective eyes with protective wings are recommended. 眼睛防护: 如果有可能发生接触,建议使用带护翼的防护眼睛。

8.4 Body protection: Work protective clothing.

身体防护:工作防护衣。

8.5 Hand protection: Protective gloves.

手防护: 防护手套。

8.6 Other protection: Smoking, eating and drinking are prohibited at the work site. Shower and change clothes after work. Keep good hygiene habits.

其它防护:工作现场禁止吸烟、进食和饮水。工作完毕,淋浴更衣。保持良好的卫生习惯。

8.7 Protective equipment (Graphics) 防护设备(图形)







## 九. Physical and Chemical Property

物理及化學性質

9.1 Exterior: White powder, odorless

外觀: 白色粉末, 无臭。

9.2 Molecular formula:

分子式: ZnO

- 9.3 PH: 9.5±1.0
- 9.4 Melting point:

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熔点(℃): 1975℃

9.5 Boiling point:

沸点(℃): 2360℃

9.6 Spontaneous combustion temperature: Meaningless

自燃温度(℃): 无意义

9.7 Critical temperature (°C): Meaningless

临界温度(℃): 无意义

9.8 Critical pressure (MPA): Meaningless

临界压力(MPa): 无意义

9.9 Flash point:

闪点(℃): 1436℃

9.10 Ignition temperature: This product is not flammable

引燃温度:本品不易燃

9.11 Explosive upper/Lower limit %(V/V): non-explosive

爆炸上限/下限%(V/V): 非爆炸物

9.12 Vapor pressure:

蒸气压: --

9.13 Vapor density: >1 (air =1)

蒸气密度: >1(空气=1)

9.14 Density:

密度: 5.6 /cm3

9.15 Solubility: The solubility of water is 1.6ppm@29°C, soluble in acid, sodium hydroxide aqueous solution. 溶解性: 水中溶解度为 1.6ppm@29℃, 可溶於酸、氫氧化鈉水溶液。

9.16 Main purpose: Reinforcer for rubber or cable, vulcanization activator for natural rubber, colorant and filler for white rubber

主要用途:橡胶或电缆的补强剂,天然橡胶的硫化活化剂,白色橡胶的着色剂和填料。。

#### +. Stability and Reactivity

安定性及反應性

10.1 Invariability: Stable at room temperature under normal pressure

安定性: 常温常压下稳定

10.2 Hazardous reactions during special condition: Dangerous polymerization does not occur 特殊狀況下可能之危害反應: 危险聚合反应不会发生。

10.3 Hazardous decomposition products: No data available

危害分解产物:无资料

10.4 Materials to avoid: Strong oxidants, strong acids and bases, chlorine compounds, magnesium.

應避免之物資:強氧化劑、强酸强碱、氯化合物、镁。

10.5 Other: Avoid dust

其它:避免产生粉尘

#### +-. Toxicological Information

毒性資料

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11.1 Acute toxicity: 1.Eat

急毒性: 1. 食入 LD50 >5000 mg/kg (rat) (OECD 401)

2. Skin

2. 皮肤 LD50 >2000 mg/kg bw (rat) (OECD 402)

3. Inhalation

3. 吸入 LC50/4h >5.7 mg/l (rat) (OECD 403)

11.2 Toxicity: No data

亚急性和慢性毒性:無

11.3 Thrill: No data

刺激性:無

11.4 Mutagenicity: No data

致突变性:無

11.5 Teratogenicity: No data

致畸性:無

11.6 Carcinogenicity: No data

致癌性:無

11.7 Others: Zinc is a trace element needed by all tissues of the body to maintain normal physiological functions. Zinc compounds are generally absorbed only in trace amounts in the digestive tract.

其它: 锌为身体各组织所需、维持正常生理功能的微量元素。一般锌化合物在消化道中仅能微量吸收。

#### 十二. Ecological Information

生態資料

12.1 Ecotoxicological toxicity:

生态毒理毒性:

- 1. Toxicity to fish
- 1. 对鱼类毒性: LC50, 0.169 mg/L Oncorhynchus mykiss
- 2. Toxicity to daphnia and other aquatic invertebrates:
- 2. 对水蚤和其他水生无脊椎动物毒性: EC50, 0.413 mg/L Ceriodaphnia dubia NOEC, 0.082 mg/L Daphnia magna

3. Toxicity to algae:

3. 对藻类毒性: IC50,0.137 mg/L Pseudokirchneriella subcapitata

NOEC, 0.082 mg/L Pseudokirchneriella subcapitata

12.2 Biodegradability: No data

生物降解性:無

12.3 Non biodegradability: No data

非生物降解性:無

12.4 Bioaccumulation: this product does not have bioaccumulation, zinc is a natural element, and is one of the elements required for the growth and development of all organisms

生物蓄积性:本品不具有生物蓄积性,锌为天然元素,且为所有生物成长发育所需元素之一。

#### 十三. Disposal Method

廢棄處置方法

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13.1 Nature of waste: This product is harmless if handled in a standard manner. Refer to relevant national and local regulations before disposal. Incineration is recommended.

废弃物性质:本产品若按标准的方法处置是没有危害的。处置前应参阅国家和地方有关法规。建议 用焚烧法处置。

13.2 Waste disposal method: dispose, bury, burn or recycle according to the requirements of relevant national and local laws and regulations.

废弃处理方法:根据国家和地方有关法规的要求处置,掩埋、焚燒或回收处理。

13.3 Precautions for waste: it is forbidden to flow directly into the sewer.

废弃注意事项:禁止直接流入下水道

## 十四. Transport Information

運輸信息

14.1 Transport number of dangerous goods No.: UN3077

危险货物运输编号: UN3077

14.2 IMDG rule page: --

IMDG 规则页码: --

14.3 Classification of transport hazards:

运输危害分类: 9级,海洋污染物



14.3 Packing mark:

包装类别: III

- 14.4 Applicable Name of transport: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) 适用运输名称: 氧化锌
- 14.5 Domestic transport regulations: According to the national road traffic safety regulations 国内运输规定:根据国家道路交通安全规则
- 14.6 Other: Less than or equal to 5kg/L packaging, not belonging to the ninth category of dangerous goods. 其它:小于或等于 5kg/L 的包装,不属于第九类的危险品。

#### 十五. Statute Information

法規資料

15.1 Occupational Safety and Health Act

职业安全卫生法

15.2 Hazardous chemicals labeling and General knowledge rules

危害性化学品标示及通识规则

15.3 Road traffic safety rules

道路交通安全规则

15.4 Storage, removal and disposal methods and facility standards for business waste 事业废弃物保存清除处理方法及设施标准

15.5 Permissible exposure standards for workers in workplaces

劳工作业场所容许暴露标准

15.6 Measures for the assessment and grading administration of hazardous chemicals

危害性化学品评估及分级管理办法

### 十六. Other Information

其他資料

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16.1 Statement: This SDS is based on our current knowledge and provides the correct safety precautions required for chemicals. This document is not a guarantee of the characteristics of the product, nor is it a legally binding contractual relationship. This note is for industrial use only and should not be used for pharmaceutical or other purposes.

声明:本 SDS 是以我们现有的知识而撰写,提供了有关化学品所需正确的安全注意事项。此文件并非为产品特性之保证,也不为具有法律效力的合同关系。本说明仅供工业生产使用,不能用作药物或其它用途。

16.2 Reference

#### 参考文献

- 1. Global Harmonization system for GHS Chemicals GHS 化学品全球调和制度
- 2. Classification, Labelling and Packaging of Chemical Substances and Mixtures 化学物质和混合物分类、标示与包装法规(Regulation(EC)No.1272/200/)
- 3. Xingang Chemical Laboratory analyzed data 信港化工实验室分析数据
- 16.3 Drawing by: GUANZHOU BAIYUN XINGGONG CHEMICAL LTD

製表單位:廣州白雲信港化工有限公司

- 16.4 Data review: Xingang Chemical Laboratory, He Songwen 数据审核: 信港化工实验室,何颂文
- 16.5 Tabulating date

製表日期: 10.MAR.2024

16.6 Version: from the twelfth edition of 2008, numbered 2023XG002 版本: 自 2008 年第十二版,编号 2023XG002