



广州白云信港化工有限公司

MATERIAL SAFETY DATA SHEET

物質安全資料表

— 1 —

一. Identifications of Substance and Company

物品與廠商資料

- 1.1 Product Name: SILICA
物品名稱：二氧化硅 C178
- 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：廣州市白雲區同德街粵溪大街 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 Molecular formula:
分子式 SiO₂
- 2.2 Silicon dioxide
二氧化硅 ≥ 98%
- 2.3 CAS NO: 112926-00-8, 7631-86-9
化学文摘登记号:
- 2.4 According to GHS regulations and does not contain hazardous substance
依 GHS 規範並不含有害危害物質

三. Hazard overview

危险性概述

- 3.1 Hazard class: This product is not classified as a hazardous chemical according to GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)
危险性类别：根据 GB 13690, GB 15258 及 GB 30000.2 至 GB 30000.29（GHS 2011），此产品未分类为危险化学品
- 3.2 Health hazard: Health Hazard: No Health Hazard under routine operation. Inhalation of dust may cause mild respiratory irritation; entry into the eye may cause mild mechanical irritation.
健康危害：常规操作下无健康危害。吸入粉尘可引起轻微呼吸道刺激；进入眼睛可引起轻微的机械刺激。
- 3.3 Environmental hazard: No environmental hazard under normal operation
环境危害：常规操作下无环境危害。
- 3.4 Explosion hazard: Nonflammable. Dry Dust can cause the accumulation of electrostatic charges during handling, transfer or mixing operations.
燃爆危险：不可燃。在进行搬运转转移或混合工序的时候，干的粉尘会产生静电荷的积累。

四. First-aid Measures

急救措施

- 4.1 **Inhalation:** If coughing, shortness of breath or other breathing problems occur, move the patient to fresh air. If symptoms persist, seek medical attention.
吸入：若咳嗽、呼吸急促或其他呼吸问题发生，将患者移至空气新鲜处。若症状持续，就医。
- 4.2 **Skin contact:** Rinse skin with clean water. If skin irritation persists, seek medical attention.
皮膚接觸：用清水冲洗皮肤。若皮肤刺激持续，请就医。
- 4.3 **Eye contact:** Rinse thoroughly with plenty of running water for at least 15 minutes. If eye irritation persists, seek medical attention.
眼睛接觸：用大量流动清水彻底冲洗至少 15 分钟。若眼睛刺激持续，请就医。
- 4.4 **Eating:** Rinse your mouth with water and seek medical advice if you feel unwell.
食入：可饮水漱口。如有不适，请就医。
- 4.5 **Prolonged or repeated exposure to silica dust may cause dry skin. Short-term exposure to high concentrations of silica dust can cause discomfort in the upper respiratory tract, causing symptoms such as coughing and wheezing.**
长期或反复暴露于白炭黑粉尘中可能会导致皮肤干燥。短期暴露于高浓度的白炭黑粉尘中可导致上呼吸道不适，引起咳嗽、气喘等症状。

五. Fire-fighting Measures

灭火措施

- 5.1 **Fire Extinguishing Media:** Suitable for all fire extinguishing materials.
適用滅火劑：所有灭火材料均适用。
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。
- 5.2 **Especially dangerous:** dry dust will generate static charge accumulation during handling or mixing processes.
特别危险性：进行搬运转移或混合工序的时候，干的粉尘会产生静电荷的积累。
- 5.3 **Fire Fighting Precautions and Protective Measures:** Firefighters should wear appropriate personal protective equipment. After a fire, wear a self-contained ventilator.
灭火注意措施及防护措施：消防人员需穿戴合适的个人防护设备。火灾发生后，需佩戴自给式呼吸机。

六. Leak handling method

泄漏处理方法

- 6.1 **Worker precautions, protective equipment and emergency procedures:**
作业人员防护措施、防护装备和应急处置程序：
Avoid generating dust. Avoid breathing dust. Avoid eye and skin contact. Wear suitable personal protective equipment.
避免产生粉尘。避免吸入粉尘。避免眼睛、皮肤接触。穿戴合适的个人防护设备。
- 6.2 **Environmental precautions:** No known and expected environmental damage in normal use.
环境保护措施：在正常使用中没有已知和预期的环境损害。
- 6.3 **Methods of containment and removal of spilled chemicals and disposal materials used:**
泄露化学品的收容、清除方法及所使用的处置材料：
Small spills: Avoid dust, sweep up carefully, put in a bag and transfer to a safe place. **Large spill:** Collect for recycling or transport to waste disposal site for disposal.
小量泄漏：避免扬尘，小心扫起，置于袋中转移至安全场所。大量泄漏：收集回收或运至废物处理场所处置。

6.4 Precautions to prevent secondary hazards from occurring: Avoid the generation of dust during the removal process to avoid re-leakage and diffusion.

防止发生次生危害的预防措施：清除过程中避免产生粉尘，避免发生再次泄露扩散。

七. Safe operation and Storage

安全操作與儲存方法

7.1 Handling Precautions: Avoid contact with skin and eyes. Avoid breathing dust. Provide adequate ventilation in the workplace. Wear suitable protective clothing if necessary. During handling, transfer or mixing processes, dry dust can create a build-up of electrostatic charges. Ensure all equipment is grounded before transferring work.

操作注意事项：避免接触皮肤和眼睛。避免吸入粉尘。工作场所提供充足的通风。如有需要，穿戴合适的防护衣物。在进行搬运转移或混合工序的时候，干的粉尘会产生静电荷的积累。转移作业前应确保所有设备接地。

7.2 Storage Precautions: Store in a dry, cool, well-ventilated place. Keep away from high temperature heating and ignition sources.

存储注意事项：存储于干燥、阴凉、通风良好的地方。远离高温加热和火源。

八. Exposure Controls and Personal Protection

接触控制和个体防护

8.1 Tolerable concentration:

容许浓度：

Occupational Exposure Limits:

职业接触限值：

Ingredients: Synthetic Amorphous Silica

成分：合成无定型二氧化硅

Basis: Occupational Exposure Limits for Hazardous Agents in the Workplace - Chemical Hazardous Agents

依据：工作场所有害因素职业接触限值 - 化学有害因素

Value: 5mg/m³ (value type PC-TWA)

值：5mg/m³ (数值类型 PC-TWA)

Exposure Form: Total Dust

接触形式：总粉尘

8.2 Engineering control method:

工程控制方法：

Workplaces should provide adequate ventilation to ensure that on-site concentrations do not exceed occupational exposure limits. Provide proper ventilation in mechanical equipment and places where dust can be generated.

工作场所应提供充足的通风以保证现场浓度不超过职业接触限值。在机械设备及可产生粉尘的地方提供适当的通风。

8.3 Personal Protective Equipment:

个体防护设备：

Respiratory Protection: Carry out risk assessment and use respirator with effective filter if necessary.

呼吸系统防护：进行风险评估，如有必要时使用带有效过滤器的呼吸器。

Eye Protection: Wear eye/face protection such as safety goggles with side shields.

眼睛防护：佩戴眼睛/面部防护，如边上带有防护的安全护目镜。

Skin and Body Protection: Wear long sleeves.

皮肤和身体防护：穿长袖衣服。

Hand Protection: Wear protective gloves.

手防护：戴防护手套。

Other Precautions: Handle in accordance with good industrial hygiene and safety practice. Workplaces can be equipped with safety eyewashes and showers.

其他防护：根据良好的工业卫生及安全措施进行操作。工作场所可配备安全洗眼和淋浴装置。

九. Physical and chemical properties

理化特性

9.1 Exterior: White Mealy.

外觀：白色粉狀。 (20°C, 101.3kPa)

9.2 Odor: None.

气味：无。

9.3 PH:7.0±0.5(20°C, suspension concentration 50g/L)

PH 值：7.0±0.5(20°C, 悬浮液浓度 50g/L)

9.4 Melting point

熔点 (°C): >1700°C

9.5 Boiling point :N/A

沸点(°C): 不适用

9.6 Density

密度：1.8-2.2g/cm³ (20°C)

9.7 Vapor pressure:N/A

蒸汽压：不适用

9.8 n-octanol/water partition coefficient:N/A

n-辛醇/水分配系数：不适用

9.9 Solubility: insoluble in water

溶解性：不溶于水

9.10 Flash point:N/A

闪点(°C): 不适用

9.11 Natural temperature:N/A

自燃温度(°C): 不适用

9.12 Flammability: not flammable

易燃性：不燃

9.13 Explosive:N/A

爆炸性：不适用

9.14 Hygroscopic:hygroscopic

吸湿性：吸湿的

十. Stability and reactivity

稳定性和反应活性

- 10.1 **Stability:** Stable under normal operating and storage conditions.
稳定性：正常操作和储存条件下稳定。
- 10.2 **Hazardous reactions:** No hazardous reactions. No hazardous polymerization.
危险反应：无危险反应。无危险聚合反应。
- 10.3 **Conditions to Avoid:** Moisture.
应避免的条件：潮湿。
- 10.4 **Incompatible materials:** No data.
不相容物质：无相关资料。
- 10.5 **Hazardous Decomposition Products:** None.
危险分解产物：无。

十一. Toxicological Information

毒理学信息

- 11.1 **Acute toxicity:**
急性毒性：
Acute Oral Toxicity: No data.
急性口服毒性：无相关资料
Acute inhalation toxicity: No data.
急性吸入毒性：无相关资料
Acute skin toxicity: No data.
急性皮肤毒性：无相关资料
- 11.2 **Skin corrosion/irritation:**
皮肤腐蚀/刺激性：
Prolonged or repeated exposure may dry skin and cause irritation.
长期或反复接触可能使皮肤干燥并引起刺激。
- 11.3 **Eye Damage/Irritation:** Dust contact with eyes can cause mechanical irritation.
眼睛损伤/刺激性：粉尘与眼睛接触会导致机械性刺激。
- 11.4 **Respiratory or skin sensitization:** No data.
呼吸或皮肤过敏：无相关资料。
- 11.5 **Germ cell mutagenicity:** No data.
生殖细胞突变性：无相关资料。
- 11.6 **Carcinogenicity:** No data.
致癌性：无相关资料。
- 11.7 **Specific target organ toxicity—one touch:** No data.
特异性靶器官系统毒性—一次接触：无相关信息。
- 11.8 **Specific target organ toxicity—repeated exposure:** No data.
特异性靶器官系统毒性—反复接触：无相关信息。

十二. Ecological information

生态学信息

- 12.1 **Ecotoxicity:**
生态毒性：
Fish toxicity: No data.
鱼类毒性：无相关信息；

Crustacean toxicity: No data.

甲壳类毒性：无相关信息；

Algal toxicity: No data.

藻类毒性：无相关信息；

12.2 Persistence and Degradability: Not expected to photodegrade and biodegrade.

持久性和降解性：预计不会光降解和生物降解。

12.3 Bioaccumulative potential: No bioaccumulative potential is expected.

潜在生物累积性：预计无潜在生物累积性。

12.4 Mobility in Soil: Insoluble in water, low mobility in soil is expected.

土壤中的迁移性：不溶于水，预计土壤中迁移性低。

十三. Disposal

废弃处置

13.1 Disposal method:

废弃处置方法：

Waste products: Waste products can be disposed of in landfill, and should be disposed of in accordance with relevant national and local waste regulations. Contaminated packaging and containers should be treated in the same way.

废弃产品：废弃产品可选择填埋处理，处置时应遵循国家和地方相关废弃物法规处置。受污染的包装和容器也应作同样处理。

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、焚烧或回收处理。

13.3 Disposal Precautions: Please refer to relevant national and local regulations before disposal.

Environmental pollution should be avoided during disposal.

废弃注意事项：处置前应参阅国家和地方有关法规。处置过程中应避免污染环境。

十四. Transport Information

运输信息

14.1 Land transport: Not dangerous to transport, not regulated.

陆运：非危险运输品，不受管制。

14.2 Sea transportation: Not dangerous to transport, not regulated.

海运：非危险运输品，不受管制。

14.3. Air freight: Not dangerous to transport, not regulated.

空运：非危险运输品，不受管制。

14.4 This product is not hazardous. Please comply with national and international transportation regulations during transportation.

该产品没有危险。运输时请遵守国家和国际运输规则。

十五. Regulatory Information

法规信息

15.1 China Regulatory Information: The following laws, regulations and standards provide corresponding provisions on the safe use, storage, transportation, handling, classification and marking of chemicals:

中国法规信息：下列法律法规和标准，对化学品的安全使用、储存、运输、装卸、分类和标志等方面均作了相应规定：

1. General Rules for Classification and Hazard Communication of Chemicals, GB 13690
化学品分类和危险性公示通则, GB 13690
2. Standard Series of Specifications for Classification of Chemicals, Warning Labels and Precautionary Statements, GB30000.2~GB30000.29
化学品分类、警示标签和警示性说明规范系列标准, GB30000.2~GB30000.29
3. Regulations for the preparation of chemical safety labels, GB 15258
化学品安全标签编写规定, GB 15258
4. Chemical Safety Data Sheet - Content and Item Sequence, GB/T 16483
化学品安全技术说明书—内容和项目顺序, GB/T 16483
5. Decree of the State Council of the People's Republic of China (No. 591): Regulations on the Safety Management of Hazardous Chemicals
中华人民共和国国务院令(第 591 号): 危险化学品安全管理条例
-GB 12268: List of Dangerous Goods
-GB 12268: 危险货物物品名表
-GB 6944: Classification and Labelling of Chemicals for Classification and Name Numbering of Dangerous Goods (GB30000.2-GB30000.29);
-GB 6944: 危险货物分类和品名编号化学品分类和标签规范(GB30000.2-GB30000.29);
6. Chemical Classification and Hazard Publicity_General Rules (GB 13690);
化学品分类和危险性公示_通则(GB 13690);
7. "Inventory of Existing Chemicals in China": Included.
《中国现有化学品名录》: 列入。
8. "Inventory of Hazardous Chemicals": Not listed.
《危险化学品名录》: 未列入。
9. "Catalogue of Highly Toxic Chemicals": Not listed.
《剧毒化学品目录》: 未列入。
10. "List of Dangerous Goods": not included.
《危险货物物品名表》: 未列入。

15.2 Additional country regulatory information:

其他国家法规信息:

CAS	EU	America	Japan	Canada	Australia	South Korea
CAS 号	欧盟	美国	日本	加拿大	澳大利亚	韩国
	(EINECS)	(TSCA)	(ENCS)	(DSL)	(AICS)	(ECL)
	Included	Included	Included	Included	Included	Included
112926-00-8	列入	列入	列入	列入	列入	列入

十六. Other Information

其他信息

16.1	Professional training required: 需要进行的专业培训： Provide trainers with adequate information and instructions. 为培训人员提供足够的信息和指导说明。
16.2	Data Sources: 数据来源： Enterprise provides 企业提供
16.3	Abbreviations explained: 缩略语解释： GHS: Globally Harmonized System of Classification and Labeling of Chemicals GHS: 全球统一化学品分类与标签全球协调制度 EINECS: European Inventory of Existing Commercial Substances EINECS: 欧洲现有商用物质名录 TSCA: US Toxic Substances Control Act TSCA: 美国有毒物质控制法案 ENCS: Inventory of Existing Substances in Japan ENCS: 日本现有物质名录 DSL: Canada Domestic Substance List DSL: 加拿大国内物质清单 AICS: Australian Inventory of Chemical Substances AICS: 澳大利亚化学物质名录 ECL: Inventory of Existing Chemical Substances in Korea ECL: 韩国现有化学物质名录
16.4	Disclaimer: 免责声明： All relevant information is fully and truthfully provided in this SDS, but we cannot guarantee its absolute breadth and accuracy. This SDS only provides safety precautions for this product to those who have received appropriate professional training and use the product. Individual users who obtain this SDS must make independent judgments on the applicability of this SDS under special conditions of use. In special occasions, the company does not take any responsibility for the damage caused by the use of this SDS. 本 SDS 中全面真实地提供了所有相关的资料，但我们并不能保证其绝对的广泛性和精确性。本 SDS 只为那些受过适当专业训练并使用该产品的有关人员提供对该产品的安全预防资料。获取该 SDS 的个人使用者，在特殊的使用条件下，必须对本 SDS 的适用性做出独立的判断。在特殊的使用场合下，对由于使用本 SDS 所导致的伤害，本企业不负任何责任。
16.5	Drawing by: GUANZHOU BAIYUN XINGGONG CHEMICAL LTD 製表單位：廣州白雲信港化工有限公司
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