



**珠海双碳科技有限公司**  
**ZhuHai Double-carbon Technology CO., LTD.**

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# 物 质 安 全 资 料 表

## Material Safety Data Sheet

产品名称: 双组份灌封胶 FD503-TG301

**Product Name: Two-component potting compound**

## 1、物品与厂商资料 Item and manufacturer information

- 物品名称：双组份灌封胶 (硅酮弹性体)  
Item Name: Two-component Potting Compound (Silicone Elastomer)
- 物品编号：FD503-TG301  
Item Number: FD503-TG301
- 制造商/供货商名称：珠海双碳科技有限公司  
Manufacturer/Supplier Name: ZhuHai Double Carbon Technology Co., Ltd.
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- 公司网址 Company website: <https://www.dcadhesive.com/>

## 2、危险性鉴别 Hazard identification

- 危险分类：无危害性；  
Hazard Classification: No hazard.
- 危险性信息：避免接触皮肤及眼睛；  
Hazard Information: Avoid contact with skin and eyes.

## 3、成分/组成信息 Component/composition information

- 化学类别：混合物； Chemical Category: Mixtures.
- 物理形态：粘性流体； Physical form: Viscous fluid
- 颜色：灰色； Colour: Grey.
- 危险组份：无危害成分； Hazardous components: No harmful ingredients.
- 主要成分 Main component

| 成份名称 Component name                                                        | 百分占比% Percentage: % | CAS 号 CAS No. |
|----------------------------------------------------------------------------|---------------------|---------------|
| $\alpha,\omega$ -二甲基聚二甲基硅氧烷 $\alpha,\omega$ -Dimethyl Polydimethylsiloxane | 5~40%               | 9006-65-9     |
| 氧化铝 Alumina                                                                | 60~95%              | 1344-28-1     |

## 4、急救措施 First aid measures

- 概述：但凡发生事故或感觉不适，立即寻求医生治疗。
- Overview: In case of any accident or feeling unwell, seek medical treatment immediately.

- 吸入：提供新鲜空气；如不适，寻求医生治疗。

Inhalation provides fresh air; If you feel unwell, seek medical treatment from a doctor.

- 皮肤接触：立即用肥皂和清水彻底冲洗皮肤。如果皮肤刺激持续，寻求医生治疗。立即脱掉被污染的衣物。

In case of skin contact, rinse the skin thoroughly with soap and water immediately. If skin irritation persists, seek medical treatment. Take off the contaminated clothes immediately.

- 眼睛接触：睁开眼睛，用流动清水冲洗几分钟。然后寻求医生治疗。

Eye contact: Open your eyes and rinse with running water for several minutes. Then seek treatment from a doctor

- 食入：漱口，并大量饮水。立即寻求医生治疗。

Swallow and rinse your mouth, and drink plenty of water. Seek medical treatment immediately.

## 5、消防措施 Fire protection measures

- 灭火介质：根据周围环境，选择适当的灭火方法。

Fire extinguishing medium: Select an appropriate fire extinguishing method based on the surrounding environment.

①适用的：泡沫，二氧化碳，干粉；

Applicable: foam, carbon dioxide, dry powder;

②不适用的：全喷射的水；

Not applicable: fully sprayed water;

- 暴露危险：火灾可能产生一氧化碳、碳氢化合物。

Exposure hazard: Fire may produce carbon monoxide and hydrocarbons.

- 防护装备：穿戴自助式呼吸器及全身防护服。

Protective equipment: Wear a self-breathing apparatus and full-body protective clothing.

- 闪点：>180℃ 开口杯测试法。

Flash point: >180℃, open cup test method.

## 6、泄漏应急处理 Emergency handling of leakage

- 个人防护：处理化学品时必须坚持常规的防护措施。确保适当的通风。避免接触到眼睛和皮肤。

Personal protection: Conventional protective measures must be adhered to when handling chemicals. Ensure proper ventilation. Avoid contact with eyes and skin.

- 环境保护：不得排入下水道/地表/地下水系中，不得渗入地面/土壤中。

Environmental protection: It must not be discharged into sewers/surface/groundwater systems, nor seep into the ground/soil.

- 消除方法：根据当地紧急计划，决定是否需要撤离或隔离该区域。遵守在本物质安全资料表中所列的所有个人防护设备使用建议。假如围堵的物品可以被吸起，应将其装入合适的容器内。用合适的吸附剂清理泄漏残余物。适当清理泄漏区域，因为即使少量泄漏物也会产生

滑膩危害。要求使用蒸汽、溶剂或清洁剂作最终清理。适当处理浸透饱和的吸收剂或清洁物品，因为其可能产生自热。有关法律规定可能适用于本物品的泄漏与释放，同样也适用于用来清理泄漏的材料物品。您需要确定较合适的法律法规。

Elimination method: Based on the local emergency plan, determine whether it is necessary to evacuate or quarantine the area. Comply with all the personal protective equipment usage recommendations listed in this material safety data sheet. If the enclosed items can be sucked up, they should be placed in appropriate containers. Clean up the leakage residue with an appropriate adsorbent. Properly clean up the leakage area, as even a small amount of leakage can cause slippery hazards. The final cleaning should be carried out using steam, solvents or cleaning agents. Properly handle saturated absorbents or cleaning substances as they may generate self-heating. The relevant legal provisions may apply to the leakage and release of this item, and also to the material items used for cleaning up the leakage. You need to determine the more appropriate laws and regulations.

## 7、操作处置及储存 **Operation, disposal and storage**

- 操作注意事项：处理化学品时必须坚持通常的防护措施。应佩戴适当的防护用品。为佩戴防护用品的人员远离区域。确保充足的通风。

Precautions for operation: When handling chemicals, usual protective measures must be adhered to. Appropriate protective equipment should be worn. Keep personnel wearing protective equipment away from the area. Ensure adequate ventilation.

- 储存提示：需谨慎小心，远离氧化性物料储存。

Storage tips: Exercise caution and store away from oxidizing materials.

- 不适合的包装材料：未确定。

Unsuitable packaging materials: Undetermined.

## 8、接触控制/个体防护 **Contact control/Personal protection**

- 工程控制 **Engineering Control**

①局部通风设备：毋需使用。Local ventilation equipment: Not required.

②普通通风设备：建议使用。General ventilation equipment: It is recommended to use.

- 常规操作的个人防护设备 **Personal protective equipment for routine operations**

①呼吸系统防护：不需要使用呼吸防护设备。

Respiratory protection: No respiratory protective equipment is required.

②使用适当的呼吸器：毋需使用。Use an appropriate respirator: No need to use it.

③眼睛防护：使用适当的防护—安全眼镜是最起码要求。

Eye protection: Use appropriate protection - safety glasses are the minimum requirement.

④手防护：毋需特别防护。Hand protection: No special protection is required.

⑤皮肤防护：进餐前和下班时进行适当清洗。

Skin protection: Wash properly before meals and after work.

⑥个人卫生措施：施行良好工业卫生措施，请于操作后进行清洗，尤其是在饮食或抽烟之前。

Personal hygiene measures: Implement good industrial hygiene measures. Please clean after operation, especially before eating or smoking.

## 9、理化特性 **Physical and chemical properties**

- 物理形态：粘性流体； Physical form: Viscous fluid;
- 颜色：A 剂：灰色，B 剂：白色； Color: Agent A: Grey, Agent B: White;
- 气味：具有轻微气味； Smell: Has a slight smell;
- PH 值：7； PH value: 7;
- 熔点：未测定； Melting point: Undetermined;
- 沸点/范围：>200℃； Boiling point/range: >200℃;
- 闪点：>180℃开口杯测试法； Flash point: >180℃, open cup test method;
- 爆炸性：否； Explosive: No;
- 氧化性：否； Oxidizing property: No
- 蒸汽压（25℃：未测定； Vapor pressure (25℃ : undetermined
- 比重：3.0±0.1g/cm<sup>3</sup>； Specific gravity: 3.0±0.1g/cm<sup>3</sup>;
- 溶解性/混合性：与水不混/难溶于水；

Solubility/Mixing property: Miscible with water/Insoluble in water;

## 10、安定性与反应性 **Stability and reactivity**

- 化学稳定性：稳定； Chemical stability: Stable.
- 危险反应的可能性：不会产生危害的聚合反应；

The possibility of dangerous reactions: Polymerization reactions that do not cause harm.

- 避免接触的条件：无； Conditions to avoid contact: None.
- 禁配物：无； Incompatible substances: None.
- 分解产物：二氧化碳，水及微量的未完全燃烧的碳化物。二氧化硅。金属氧化物。氮化物；  
Decomposition products: carbon dioxide, water and trace amounts of incompletely burned carbides. Silicon dioxide. Metal oxides. Nitride.

## 11、毒理学信息 **Toxicological information**

- 暴露途径：吸入，皮肤接触和意外吞食；

Exposure routes: Inhalation, skin contact and accidental ingestion.

- 过分接触的影响和症状：正常使用下，无显著不良影响；

The effects and symptoms of excessive exposure: Under normal use, there are no significant adverse effects.

- 急性毒性： Acute toxicity:

眼睛：直接接触可能引起短暂的发红和不舒服感。

Eyes: Direct contact may cause temporary redness and discomfort.

皮肤：单一短时间暴露不会有重大影响。

Skin: A single short-term exposure will not have a significant impact.

食入：正常使用时只具很低的摄入危害。

Ingestion: It poses only very low ingestion risks when used normally.

吸入：单一短时间暴露不会有重大影响。

Inhalation: A single short-term exposure will not have a significant effect.

- 慢性毒性：Chronic toxicity:

皮肤：无合适的资料。

Skin: No suitable information available.

食入：反复或大量摄入可能造成身体内部伤害。

Ingestion: Repeated or excessive intake may cause internal harm to the body.

吸入：无合适的资料。

Inhalation: No suitable information available.

- 其它健康危害信息：无合适的资料。

Other health hazard information: No appropriate data available.

## 12、生态学信息 Ecological information

- 水生态和陆生生态毒性：Aquatic ecology and terrestrial ecotoxicity

- 生态毒性效应：Ecotoxicity effects:

急性影响：对水生有机体无有害影响；

Acute effects: No harmful effects on aquatic organisms;

慢性影响：对水生有机体无有害影响；

Chronic effects: No harmful effects on aquatic organisms;

- 对废水处理厂的影响：通过与污水淤泥粘合，可被去除 90%以上。对细菌无有害影响。本产品中的硅氧烷不是BOD 的一部分。

Impact on wastewater treatment plants: By adhering to the sludge in the sewage, over 90% can be removed. It has no harmful effect on bacteria. The siloxane in this product is not part of BOD.

- 持久性和降解性：Durability and degradability:

降解性：硅氧烷在土壤中退化降解。Degradability: Siloxane degrades in the soil.

- 生物蓄积性潜力：Bioaccumulative potential:

生物累积性：无生物累积能力。Bioaccumulation: No bioaccumulation ability.

- 在土壤中流动性：通过沉积或粘合至污水淤泥，将硅氧烷从水中分离出来。硅氧烷在土壤中退化降解。

Fluidity in soil: Siloxane is separated from water by sedimentation or adhesion to sewage

sludge. Siloxane degrades and degrades in the soil.

- 进一步的环境补充资料：Further environmental Supplementary information:
- 可根据要求提供额外的有关硅氧烷化合物的环境资料。

Additional environmental information on siloxane compounds can be provided upon request.

### 13、废物处理 Waste Disposal

- 产品废弃物处置方法：按照当地法规进行废弃处理。

Disposal method for product waste: Dispose of the waste in accordance with local regulations.

- 包装废弃物处置方法：按照当地法规进行废弃处理。

Disposal method for packaging waste: Dispose of it in accordance with local regulations.

### 14、运输信息 Transportation information

- 公路和铁路运输：不属危险品运输。

Road and rail transportation: It does not fall under the category of dangerous goods Transportation.

- 海运 (IMDG): 不属IMDG 编码。

Maritime Transport (IMDG) : Not part of IMDG coding.

- 空运 (ICAO): 不属ICAO 规定。

Air Transport (ICAO) : Not subject to ICAO regulations.

### 15、法规信息 Regulatory information

- 适用法规：工作场所安全使用化学品规定，针对化学危险品的安全使用、生产、储存、运输装卸等方面均作了相应规定。

Applicable Regulations: The Regulations on the Safe Use of Chemicals in the Workplace have made corresponding provisions for the safe use, production, storage, transportation and handling of chemical hazardous materials.

- 化学品库存：Chemical Inventory:

- AICS: 所有组份均列出或予以免除。

AICS: All components are listed or excluded.

- DSL: 本物品中的所有化学成分都被列入DSL 化学物质目录或获得DSL 化学物质目录的豁免。

DSL: All chemical components in this item are listed in the DSL Chemical Substances Catalogue or are exempted from the DSL Chemical Substances Catalogue.

- IECSC : 所有组成份均列出或予以免除。

IECSC: All components are listed or excluded.

- MITI: 所有组成份均列入ENCS 或它的免除规定中。

MITI: All components are included in the ENCS or its exemption provisions.

- TSCA: 本物品中的所有化学成分都被列入TSCA化学物质目录或获得TSCA化学物质目录的豁免。

免。

TSCA: All chemical components in this item are listed in the TSCA Chemical substance catalogue or have been TSCA-ized Exemption from the list of academic materials.

- PICCS: 所有成份均列出或予以免除。

PICCS: All ingredients are listed or excluded.

## 16、其他信息 **Other information**

- 制作机构：珠海双碳科技有限公司；更新时间：2024.03.26

ZhuHai Double Carbon Technology Co., Ltd.

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This material is not a product manual but is intended to provide representative and valuable concepts. There are no guarantees, confessions or hints here. The recommended industrial hygiene and safety handling procedures are believed to have been basically applicable. However, each user should review the proposed usage method of this product before use and decide whether it is applicable.