



# 物质安全资料表

## Material Safety Data Sheet

### (MSDS)

文件号/File No.: **DTIBW20201206-3**

日期/Date: 2020-12-16

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Company Name : **HUIZHOU JIAJIE MECHATRONICS PLASTIC CO., LTD.**

公司名称: 惠州市嘉杰机电塑胶有限公司

Company Address : **No. 8, ShangXinXiaoZu, AoLing, FuTian, Boluo, Huizhou City, Guangdong Province, the People's Republic of China**

公司地址: 广东省惠州市博罗县福山镇坳岭村上新小组 8 号

Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下 :

Sample Name 样品名称 : 普倍牌二氧化氯消毒片(慢速片)YO纳米超导消毒因子

Sample Receiving Date : December 11, 2020

收样日期 : 2020 年 12 月 11 日

Edit Period : From December 11, 2020 to December 16, 2020

编写周期 : 2020 年 12 月 11 日至 2020 年 12 月 16 日

Details : Please refer to next page(s).

内容 : 参见后续页


### 要求/REQUEST

As specified by the client, to edit **Material Safety Data Sheet (MSDS)** for the submitted sample.

A 根据申请单位要求, 对所送样品编辑制作**物质安全资料表(MSDS)**。

Shenzhen Deesev Testing International Corp

深圳市德泽威技术检测有限公司

Approved by: 

批准

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

##### 第 1 部分：产品和公司标识

###### 1.1 Product identifier/产品标识

Product name/产品名称:普倍牌二氧化氯消毒片(慢速片)YO纳米超导消毒因子

Product model/产品型号: /

###### 1.2 Relevant identified uses of the substance or mixture and uses advised against

物质或混合物的相关确定用途和建议的用途

Identified uses: No information available.

确定用途: 无可用信息。

Uses advised against: No information available.

使用建议: 无可用信息。

###### 1.3 Details of the supplier of the safety data sheet

安全数据表供应商的详细信息

Supplier: /

供应商: /

Address: /

地址: /

Telephone: /

电话: /

###### 1.4 Emergency telephone number: /

紧急电话: /

#### SECTION 2. HAZARDS IDENTIFICATION

##### 第 2 部分：危害识别

**2.1 Classification of the substance/mixture according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and globally harmonized system of classification and labelling of chemicals(GHS).**

根据 2012 年 OSHA 危害通报标准 (29 CFR 1910.1200) 和全球统一的化学品分类和标签制度 (GHS) 对物质/混合物进行分类。

**Physical hazards:** No information available.

物理危害: 无可用信息。

**Health hazards/健康危害:** Inhalation: Inhalation may be harmful. Sodium chlorite has strong destructive effect on tissues, mucous membrane and upper respiratory tract. Ingestion: If ingested, it may cause poisoning and burning.

Skin: May be fatal if absorbed through the skin. May cause skin burning. Eyes: May cause eye irritation or burns.

吸入: 吸入可能有害。亚氯酸钠对组织、粘膜和上呼吸道破坏力强。摄入: 如服入可能会中毒、引起灼烧。皮肤: 如果通过皮肤吸收可能会致死。可能引起皮肤灼烧。眼睛: 可能引起眼睛刺激或烧伤。

**Environmental hazards/环境危害:** Sodium chlorite is very toxic to aquatic organisms. 亚氯酸钠对水生生物毒性极大。

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#### 2.2 Label elements/标签要素

Hazard pictogram(s)/危险象形图:



Signal word 信号词: **Danger 危险**

Hazard statement(s) 危险声明:

- H271 May cause fire or explosion; strong Oxidizer 可能引起燃烧或爆炸: 强氧化剂
- H301 Toxic if swallowed 吞咽有毒
- H310 Fatal in contact with skin 皮肤接触致命
- H314 Causes severe skin burns and eye damage 造成严重皮肤灼伤或眼损伤
- H319 Causes serious eye irritation 造成严重眼刺激
- H360 可能对生育能力或胎儿造成伤害
- H373 Causes damage to organs through prolonged or repeated exposure 长期或反复接触会导致器官损伤
- H400 Very toxic to aquatic life 对水生生物毒性极大
- H412 Harmful to aquatic life with long lasting effects 长期影响对水生生物有害

Precautionary statements 预防说明:

- P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. 远离热源/火花/明火/热表面。禁止吸烟。
- P220 Keep away from clothing and other combustible materials. 远离衣物和其他易燃材料。
- P221 Take any precaution to avoid mixing with combustibles/... 采取任何预防措施避免与可燃物混合...
- P260 Do not breathe dust/fume/gas/mist/vapors/spray. 请勿吸入粉尘/烟雾/气体/烟雾/蒸气/喷雾。
- P262 Do not get in eyes, on skin, or on clothing. 不要进入眼睛、皮肤或衣服上。
- P264 Wash ... thoroughly after handling. 操作后彻底清洁皮肤
- P270 Do not eat, drink or smoke when using this product. 使用本产品时请勿进食、饮水或吸烟。

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P273	Avoid release to the environment.避免释放到环境中。
P280	Wear protective gloves/protective clothing/eye protection/face protection. 佩戴防护手套/防护服/眼部防护/面部防护。
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/... 如果吞食：立即呼叫解毒中心/医生
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 如果吞食：漱口。不要催吐。
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. 如果在皮肤（或头发）上：立即脱掉所有受污染的衣服。用水/淋浴冲洗皮肤。
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. 如果进入眼睛：用水小心冲洗几分钟。如果有隐形眼镜并且很容易取下。持续冲洗。
P306+P360	IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes. 如果在衣服上：在脱衣服之前，立即用大量的水冲洗被污染的衣服和皮肤。
P314	Get medical advice/attention if you feel unwell.如果你感到不适，请就医。
P361+P364	Take off immediately all contaminated clothing and wash it before reuse. 立即脱下所有被污染的衣服，并在重新使用前清洗。
P370+P378	In case of fire: Evacuate area.在发生火灾时：疏散区域。
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. 如果发生重大火灾和大量火灾：疏散区域。远程灭火，有爆炸危险。
P391	Collect spillage.收集溢出物。
P405	Store locked up.存储已锁定。
P501	Dispose of contents / container regulations in accordance with local / regional / national / international requirements. 按照当地/区域/国家/国际的要求处理内容物/容器规章制度。

**2.3 Other hazards:** No information available.

其他危险：无可用信息。

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 第 3 部分：化合物成分信息

Ingredients/组成成分: Mixture component/混合物成分

Name of substance 成分名称	CAS No. CAS 号	Proportion 比例 %
活性成份		
Sodium chlorite 亚氯酸钠	7758-19-2	30
非活性成份		
Limonexic acid 柠檬酸	99026-99-0	10
Sodium carbonate 碳酸钠	497-19-8	20
Sodium chloride 氯化钠	7647-14-5	5
Orthoboric acid 硼酸	10043-35-3	10
Sodium sulfate 硫酸钠	7757-82-6	10
Starch 淀粉	9005-25-8	20

### SECTION 4. FIRST AID MEASURES

#### 第 4 部分：急救措施

#### 4.1 Description of first aid measures/急救措施说明

**General information:** In all cases of doubt, seek medical attention.

**一般信息:** 如有疑问, 请就医。

**Following inhalation:** If you feel unwell, remove to fresh air and keep at rest in a position comfortable for breathing.

**吸入后:** 如果你感到不适, 请转移到新鲜空气中, 并保持在一个舒适的呼吸位置休息。

**Following skin contact:** If skin irritation or rash occurs, wash with plenty of soap and water. Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**皮肤接触后:** 如果出现皮肤刺激或皮疹, 用大量肥皂和水清洗。请就医。脱掉被污染的衣服, 清洗干净后再使用。

**Following eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**眼睛接触后:** 用水小心冲洗几分钟。如果有隐形眼镜并且很容易取下。继续冲洗。如果眼睛刺激持续存在请就医。

**Following ingestion:** Do not induce vomiting. Do not feed anything to the unconscious. See a doctor.

**摄入后:** 禁止催吐。切勿给失去知觉者喂食任何东西。就医。

**Information for doctor:** No information available.

**医生信息:** 无可用信息。

#### 4.2 Most important symptoms and effects, both acute and delayed: No information available.

**最重要的急性和迟发症状和影响:** 无可用信息。

#### 4.3 Indication of any immediate medical attention and special treatment needed: No information available.

**需要立即就医和特殊治疗的迹象:** 无可用信息。

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#### SECTION 5. FIRE-FIGHTING MEASURES

##### 第 5 部分：消防措施

##### 5.1 Extinguishing media/灭火剂

**Suitable extinguishing agents:** Use dry chemicals.

合适的灭火剂：使用干化学。

**Unsuitable extinguishing agents:** No information available.

不合适的灭火剂：无可用信息。

##### 5.2 Special hazards arising from the substance or mixture:No information available.

物质或混合物引起的特殊危害：无可用信息。

##### 5.3 Advice for firefighters/消防员建议

Fire-fighters should wear appropriate breathing apparatus and protective equipment. Prevent fire-fighting water from entering surface water or groundwater.

消防员应穿戴适当的呼吸器和防护设备。防止消防用水进入地表水或地下水。

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### 第 6 部分：意外泄漏措施

##### 6.1 Personal precautions, protective equipment and emergency procedures

个人预防措施、防护设备和应急程序

Use personal protective equipment as required. Avoid dust generation. Avoid inhalation of vapor, mist or gas.

Ensure adequate ventilation. Evacuate people to a safe area. Avoid inhalation of dust.

根据需要使用个人防护设备。避免粉尘生成。避免吸入蒸气、气雾或气体。保证充分的通风。将人员疏散到安全区域。避免吸入粉尘。

##### 6.2 Environmental precautions

环境预防措施

Avoid release to the environment. Avoid discharge into drains, surface water or groundwater.

避免释放到环境中。避免排入下水道、地表水或地下水。

##### 6.3 Methods and material for containment and cleaning up

围堵和清理的方法和材料

Absorb with earth, sand or other non-combustible material and transfer to container.

用泥土、沙子或其他不可燃物质吸收并转移到容器中。

##### 6.4 Reference to other sections/参考其他章节

See Section 7 for information on safe handling.

有关安全处理的信息，请参见第 7 节。

See Section 8 for information on personal protection equipment.

有关个人防护设备的信息，请参见第 8 节。

See Section 13 for disposal information.

处置信息见第 13 节。

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#### SECTION 7. HANDLING AND STORAGE

##### 第 7 部分：处理和储藏

###### 7.1 Handling/搬运

Use personal protective equipment as required. Do not get in eyes. Keep away from the fire source, no fireworks.  
根据需要使用个人防护设备。不要进入眼睛。切勿靠近火源，严禁烟火。

###### 7.2 Conditions for safe storage, including any incompatibilities

安全储存条件，包括任何不相容性

Keep container tightly closed and in a cool, well-ventilated area.

保持容器密闭，并置于阴凉、通风良好的区域。

###### 7.3 Specific end use(s): No information available.

特殊最终用途：无可用信息。

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### 第 8 部分：接触控制/个人防护

**Appropriate engineering controls:** Provide local exhaust or process enclosure ventilation system.

适当的工程控制：提供局部排气或工艺外壳通风系统。

**Respiratory protection:** In case of inadequate ventilation wear respiratory protection.

呼吸保护：如果通风不足，请佩戴呼吸保护装置。

**Skin protection:** Wear protective gloves.

皮肤防护：戴防护手套。

**Eye protection:** Wear protective eye/face protection.

眼睛保护：戴上眼睛/面部保护装置。

**Body protection:** Wear protective clothing to prevent contact.

身体防护：穿防护服，防止接触。

**Environmental exposure controls:** Avoid release to the environment. Avoid discharge into drains, surface water or groundwater.

环境暴露控制：避免释放到环境中。避免排入下水道、地表水或地下水。

**Other protection:** Attention to personal hygiene.

其他防护：注意个人卫生。

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

##### 第 9 部分：物理化学性质

##### 9.1 Information on basic physical and chemical properties/基本理化性质信息

Appearance: Solid.

外观：固体

Colour: White

颜色：白色

Odour:

气味：

9.2 Additional information: No data available.

附加信息：无可用数据。

#### SECTION 10. STABILITY AND REACTIVITY

##### 第 10 部分：化学稳定性

10.1 Reactivity: Stable under recommended storage and handling conditions.

反应性：在推荐的储存和搬运条件下稳定。

10.2 Chemical stability: Stable under normal conditions of use, storage and transport.

化学稳定性：在正常使用、储存和运输条件下稳定。

10.3 Possibility of hazardous reactions: No dangerous reactions known.

危险反应的可能性：没有已知的危险反应。

10.4 Conditions to avoid: No information available.

应避免的条件：无可用信息。

10.5 Incompatible materials: No information available.

不相容材料：无可用信息。

10.6 Hazardous decomposition products: No information available.

危险分解产物：无可用信息。

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### 第 11 部分：毒理学信息

**Acute toxicity/急性毒性:**

Ingredient name 成分名称	Acute toxicity(LD50) 急性毒性(LD50)
Sodium chlorite 亚氯酸钠	284mg/kg (rat orally); 134mg/kg (rabbit percutaneous) 284mg/kg (大鼠经口); 134mg/kg (兔经皮)
Limonexic acid 柠檬酸	No data. 无数据
Sodium carbonate 碳酸钠	4090mg/kg (rat orally) 4090mg/kg (大鼠经口)
Sodium chloride 氯化钠	3550mg/kg (rat orally); >10000mg/kg (rabbit percutaneous) 3550mg/kg (大鼠经口); >10000mg/kg (兔经皮)
Orthoboric acid 硼酸	2660mg/kg (rat orally) 2660mg/kg (大鼠经口)
Sodium sulfate 硫酸钠	5989mg/kg (mouse orally) 5989mg/kg (小鼠经口)
Starch 淀粉	6600mg/kg (mouse abdominal cavity) 6600mg/kg (老鼠腹腔)

**Skin corrosion/irritation:**

**皮肤腐蚀/刺激:**

Ingredient name 成分名称	Skin corrosion/irritation 皮肤腐蚀/刺激	Ingredient name 成分名称	Skin corrosion/irritation 皮肤腐蚀/刺激
Sodium chlorite 亚氯酸钠	No data. 无数据	Orthoboric acid 硼酸	No data. 无数据
Limonexic acid 柠檬酸	No data. 无数据	Sodium sulfate 硫酸钠	No data. 无数据
Sodium carbonate 碳酸钠	Rabbit percutaneous, 500mg (24h), Mild irritation 家兔经皮, 500mg (24h), 轻度刺激	Starch 淀粉	Human transdermal - 3 h, mild irritation 人经皮-3h, 轻度刺激
Sodium chloride 氯化钠	No data. 无数据		

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**Serious eye damage/irritation/严重眼睛损伤/刺激:**

Ingredient name 成分名称	Serious eye damage/irritation 严重眼睛损伤/刺激	Ingredient name 成分名称	Serious eye damage/irritation 严重眼睛损伤/刺激
Sodium chlorite 亚氯酸钠	Eyes - rabbits - can cause serious damage to the eyes 眼睛-家兔-可对眼睛造成严重损伤	Orthoboric acid 硼酸	No data. 无数据
Limonexic acid 柠檬酸	No data. 无数据	Sodium sulfate 硫酸钠	No data. 无数据
Sodium carbonate 碳酸钠	Rabbit eye, 100mg (24h), moderate irritation 家兔经眼, 100mg (24h), 中度刺激	Starch 淀粉	No data. 无数据
Sodium chloride 氯化钠	No data. 无数据		

**Respiratory or skin sensitization:** No information available.

呼吸或皮肤致敏: 无可用信息。

**Toxicokinetics, metabolism and distribution:** No information available.

毒代动力学、代谢和分布: 无可用信息。

**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):**

CMR 效应 (致癌、致突变性和生殖毒性):

Sodium chlorite 亚氯酸钠: Oral - long term or repeated exposure may damage organs (spleen). 经口-长期或反复接触可能损害器官 (脾脏)。

Sodium carbonate 碳酸钠: Reproductive toxicity: mice dose intrauterine tdlo: female pregnant 4 days: 84800 mg / kg sex / duration. 生殖毒性: 小鼠 DOSE 经宫内 TDLo: 雌性怀孕 4 天后: 84800mg/kgSEX/DURATION, 影响胚胎植入前的死亡率

Orthoboric acid 硼酸: Human transdermal: 15mg / 3 days, intermittent exposure, moderate irritation. 人经皮: 15mg/3 天, 出现间歇染毒, 中度刺激。

**Additional description:** No information available.

附加说明: 无可用信息。

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#### SECTION 12. ECOLOGICAL INFORMATION

##### 第 12 部分：生态病理学信息

#### 12.1 Toxicity/毒性

#### Acquatic toxicity 已知毒性:

Ingredient name 成分名称	Acquatic toxicity 已知毒性
Sodium chlorite 亚氯酸钠	LC50:Cyrinodon variegates(红鲃)-105mg/l-96h EC50:Daphnia magna(水蚤)-<1mg/l-96h EC50:Pseudokirchneriella subcapitata(绿藻)-1mg/l-96h
Limonexic acid 柠檬酸	No data.无数据
Sodium carbonate 碳酸钠	LC50: Blue gill sunfish 蓝鳃太阳鱼 - 300 mg/l - 96 h EC50: Daphnia magna (水蚤) - 265 mg/l - 48 h
Sodium chloride 氯化钠	LC50: Blue gill sunfish 蓝鳃太阳鱼 - 300 mg/l - 96 h LC50:大型蚤 (水蚤) - 1,661 mg/l - 48 h
Orthoboric acid 硼酸	LC50: Blue gill sunfish 蓝鳃太阳鱼 - >1021 mg/l - 96 h LC50: Ptychocgeilus lucius-279mg/l-96h LC50: Daphnia magna (水蚤) - 53.2mg/l - 21d EC50: Daphnia magna (水蚤) - 133mg/l - 48 h
Sodium sulfate 硫酸钠	LC50: 其他鱼 - 56 mg/l - 96 h EC50: 水蚤 - 3,150.21 mg/l - 48 h
Starch 淀粉	No data.无数据

#### 12.2 Persistence and degradability/持久性和降解性

No further relevant information available.

没有进一步的相关信息。

#### 12.3 Bioaccumulative potential/生物累积潜力

No further relevant information available.

没有进一步的相关信息。

#### 12.4 Mobility in soil/土壤流动性

No further relevant information available.

没有进一步的相关信息。

#### 12.5 Results of PBT and vPvB assessment/ PBT和vPvB评估结果

**PBT:** Not applicable/不适用.

**vPvB:** Not applicable/不适用.

#### 12.6 Other adverse effects/其他不利影响

No information available.

无可用信息。

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

##### **第 13 部分: 废置处理**

##### **13.1 Waste treatment methods/废物处理方法**

Dispose in accordance with all applicable regional and local laws and regulations.  
根据所有适用的区域和地方法律法规进行处置。

#### **SECTION 14. TRANSPORT INFORMATION**

##### **第 14 部分: 运输信息**

According to customer information, this product adopts air, sea and railway transportation methods.  
根据客户信息, 本产品采用空运、海运、铁路的运输方式。

Regulation法规:	IATA DGR	IMDG Code	ADR/RID
UN No.:	No data.	No data.	No data.
UN号:	无数据	无数据	无数据
Proper shipping Name:	No data.	No data.	No data.
正确的运输名称:	无数据	无数据	无数据
Hazard Class:	5.1	5.1	5.1
危险等级:			
Packing Group:	II	II	II
包装类别:			
Packing method:	Not regulated	Not regulated	Not regulated
包装方法:	不在监管范围内	不在监管范围内	不在监管范围内

#### **SECTION 15. REGULATORY INFORMATION**

##### **第 15 部分: 法规信息**

OSHA HCS 29 CFR 1910.1200:2012

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

For other detail regulation you should be contacted the appropriate agency in your country, or refer to domestic, EU/international regulations.

OSHA HCS 29美国联邦法规1910.1200:2012

全球化学品统一分类标签制度。

有关其他详细规定, 请联系所在国的相关机构, 或参考国内、欧盟/国际法规。

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#### SECTION 16. OTHER INFORMATION

##### 第 16 部分：其他信息

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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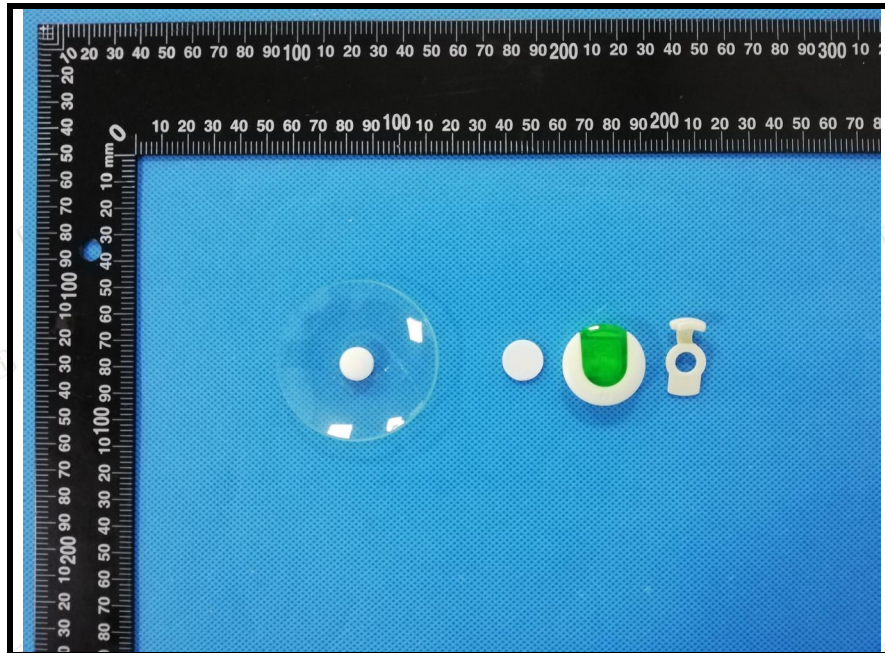
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#### Sample Photo

样品照片



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