



Test Report  
检测报告

No.: S241224070003-2  
编号: S241224070003-2

Date: Dec 27, 2024  
日期: 2024年12月27日

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# MSDS

## 化学品安全技术说明书

**Sample Name:** CLEANER

样品名称: 清洁剂

**Tested Model:** RL-530

主测型号: RL-530

**Additional Model/附加型号:** RL-520+、RL-520、SS-520+、SS-520、SS-580、SS-530、RL-530、RL-530E、RL-550、RL-550E、RL-560、RL-560E、RL-570、RL-570E、RL-518、RL-528、RL-538、RL-580E、RL-590、RL-590E、RL-518A、RELIFE 70、RL-039、RL-548、RL-558、RL-568、RL-578、RL-588、RL-598、HC9、HC10、HC11、HC12、HC13、HC14、HC15、HC16、HC17、HC18、HC19、HC20、HC21、RL-8333

**Customer:** Guangzhou Sunshine Electronics Technology Co.,Ltd

客户名称: 广州歆讯电子科技有限公司

**Customer Address:** 16th Floor, No. 9 Baihesha Road, Liwan District, Guangzhou

客户地址: 广州市荔湾区白鹤沙路9号16层

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## Material Safety Data Sheet 化学品安全技术说明书

### Section 1 - Chemical Product and Company Identification

#### 第一项: 化学品名称和制造商信息

**Sample Name:** CLEANER

样品名称: 清洁剂

**Tested Model:** RL-530

主测型号: RL-530

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**Trademark:** Quick, Sunshine, RELIFE

商标品牌: Quick, Sunshine, RELIFE

**Customer:** Guangzhou Sunshine Electronics Technology Co.,Ltd

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客户地址: 广州市荔湾区白鹤沙路9号16层

**Manufacturer:** Foshan Xinheng Technology Co., Ltd.

制造商名称: 佛山新恒科技有限公司

**Manufacturer Address:** 5th Floor, Building 3, Liandong Intelligent Manufacturing Park, No. 105, Shilong North Road, Nanhai District, Foshan City

制造商地址: 佛山市南海区桂城街道石龙北路105号联东智造园3座5楼

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## Section 2 - Hazards Identification

### 第二项: 危害信息

Fatality grade: In accordance with Regulation (EC) No. 1272/2008, the sample is divided into 2.1 Class flammable dangerous goods.

危险性类别: 根据指令(EC) No. 1272/2008, 该样品被划分为 2.1 类易燃危险品。

#### Classification of the substance or mixture

物质或者混合物危险性类别

#### Classification according to Regulation (EC) No. 1272/2008

根据(EC) No. 1272/2008 进行分类



GHS02 Flame  
GHS02 火焰



GHS08 Health hazard  
GHS08 健康危害



GHS04 gas cylinder  
GHS04 气体钢筒

Flammable Gases and Chemically Unstable  
Gases Category 1

加压气体 类别 液化气体 易燃气体 类别 1

Germ Cell Mutagenicity Category 1B

生殖细胞致突变性 类别 1B

Carcinogenicity Category 1B

致癌性 类别 1B

H220 Extremely flammable gas.

H220 极端易燃气体

H340 May cause genetic defects.

H340 可能导致遗传性缺陷

H350 May cause cancer.

H350 可能致癌

#### Label elements:

标签元素

The product is classified and labeled in accordance with CLP regulations.

该产品按照 CLP 法规进行分类和标签。

#### Pictogram(s):

危险象形图



GHS02



GHS08



GHS04

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**Signal Word:** Danger

**警示词:** 危险

**Hazard-determining components of labelling:** Butane propellant( $\text{CH}_3(\text{CH}_2)_2\text{CH}_3$ )

标签上辨别危险的成分: 丁烷

**Hazard statement**

危险性说明:

H220 Extremely flammable gas.

H220 极端易燃气体

H340 May cause genetic defects.

H340 可能导致遗传性缺陷

H350 May cause cancer.

H350 可能致癌

**Precautionary statement:**

防范说明:

**Precaution:**

预防措施:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P210 远离热源/火花/明火/热表面。禁止吸烟。

P201 Obtain special instructions before use.

P201 使用前取得专用说明。

P202 Do not move until all safety precautions have been read and understood.

P202 在阅读并明了所有安全措施 前切勿搬动。

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280 戴防护手套/穿防护服/戴防护眼罩/戴防护面具。

**Incident response:**

事故回应:

P377 Air Leak Fire: Do not extinguish unless air leak can be safely stopped.

P377 漏气着火: 切勿灭火, 除非漏气能够安全地制止。

P381 Remove all sources of ignition if not dangerous.

P381 除去一切点火源, 如果这么做 没有危险。

P308+P313 IF exposed or concerned: Get medical advice/attention

P308+P313 如接触到或有疑虑: 求医/就诊。

**Safe storage:**

安全储存:

P410+P403 Protect from sunlight, store in a well-ventilated place.

P410+P403 防日晒,存放于通风良好处。

P403 Store in a well-ventilated place.

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P403 存放在通风良好的地方。

P405 Storage must be locked.

P405 存放处须加锁。

**Disposal:**

**废弃处置:**

P501 Dispose of contents/container in accordance with local regulations.

P501 按当地法规处置内装物/容器。

**Invasion route:**

**侵入途径:**

**Eyes contact:** Direct contact can cause eye irritation.

**眼睛接触:** 直接接触, 可使眼睛受到刺激。

**Skin contact:** May irritate the skin.

**皮肤接触:** 可能刺激皮肤。

**Inhalation:** Inhaling its vapor is harmful. High concentrations have asphyxiating and anesthetic effects. Acute poisoning: Important symptoms include dizziness, headache, drowsiness and drunkenness, and coma in severe cases. Chronic effects: Workers exposed mainly to n-butane have dizziness, headaches, poor sleep, fatigue, etc.  
**吸入:** 吸入其蒸汽有害。高浓度有窒息和麻醉作用。急性中毒: 重要症状有头晕、头痛、嗜睡和酒醉状态、严重者可昏迷。慢性影响: 接触以正丁烷为主的工人有头晕、头痛、睡眠不佳、疲倦等。

**Ingestion:** Harmful if swallowed

**摄入:** 吞咽有害。

**Health hazards:** Inhaling its vapor is harmful. High concentrations have asphyxiating and anesthetic effects.

Acute poisoning: Important symptoms include dizziness, headache, drowsiness and drunkenness, and coma in severe cases. Chronic effects: Workers exposed mainly to n-butane have dizziness, headaches, poor sleep, fatigue, etc. May cause genetic defects. May cause cancer.

**健康危害:** 吸入其蒸汽有害。高浓度有窒息和麻醉作用。急性中毒: 重要症状有头晕、头痛、嗜睡和酒醉状态、严重者可昏迷。慢性影响: 接触以正丁烷为主的工人有头晕、头痛、睡眠不佳、疲倦等。可能导致遗传性缺陷。可能致癌。

**Environmental hazards:** Do not release materials into the surrounding environment unless permitted by the government.

**环境危害:** 若无政府许可, 勿将材料排入周围环境

**Burn & burst danger:** The sample is inflammable. Vapor and air can form an explosive mixture, in the case of open fire, high heat caused combustion explosion. Vapor is heavier than air and can be diffused at a lower level over a considerable distance. In case of fire, it will ignite back and explode (flash).

**燃爆危险:** 本品易燃。蒸气与空气能形成爆炸性混合物, 遇明火、高热能引起燃烧爆炸。蒸气比空气重, 能在较低处扩散到相当远的地方, 遇火源会着火回燃和爆炸 (闪爆)

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### Section 3 –Composition/Information on Ingredient




#### 第三项：组成信息

Pure ☐ Admixture ☒

纯品 ☐ 混合物 ☒

#### Composition:

化学成分:

Chemical Name 化学名称	CAS No. 化学文摘登陆号	Composition (in% by weight) 成份重量百分比
Butane propellant( $\text{CH}_3(\text{CH}_2)_2\text{CH}_3$ ) 丁烷 Flammable Gases and Chemically Unstable Gases Category 1,H220  加压气体 类别 液化气体 易燃气体 类别 1,H220 Germ Cell Mutagenicity Category 1B,H340  生殖细胞致突变性 类别 1B,H340 Carcinogenicity Category 1B,H350  致癌性 类别 1B,H350	106-97-8	50%
Special Solvent 专用溶剂	---	50%

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## Section 4 - First Aid Measures

### 第四项: 急救措施

**Skin contact:** Remove contaminated clothing immediately. Rinse your skin with plenty of soapy and clean water. If you feel ill, seek medical attention. **Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes. If you feel ill, seek medical attention.

**皮肤接触:**立即脱去污染的衣物。用大量肥皂水和清水冲洗皮肤。如有不适,就医。眼睛接触:用大量水彻底冲洗至少15分钟。如有不适,就医。

**Inhalation:** Move the person to fresh air immediately to keep breathing clear. Give oxygen if breathing is difficult. If the patient ingests or inhales this substance, mouth to mouth inhalation is not allowed. If the breathing stops. Perform CPR immediately. Seek immediate medical attention.

**吸入:**立即将患者移到新鲜空气处,保持呼吸畅通。如果呼吸困难,给予吸氧。如患者食入或吸入本物质,不得进行口对吸。如果呼吸停止。立即进行心肺复苏术。立即就医。

**Ingestion:** Do not induce vomiting, and do not feed anything from the mouth of an unconscious person. Call a doctor or poison control immediately.

**摄入:**禁止催吐,切勿给失去知觉者从嘴里喂食任何东西。立即呼叫医生或中毒控制中心。

**Advice to protect rescuers:** Remove all sources of fire and improve ventilation. Avoid contact with skin and eyes. Avoid inhaling steam. Use protective gear, including breathing masks.

**对保护施救者的忠告:**清除所有火源,增强通风。避免接触皮肤和眼睛。避免吸入蒸气。使用防护装备,包括呼吸面具。

**A special note to doctors:** Tailor treatment to the symptoms that appear. Be aware that symptoms may be delayed.

**对医生的特别提示:**根据出现的症状进行针对性处理。注意症状可能会出现延迟。

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## Section 5 - Fire Fighting Measures

### 第五项: 消防措施

**Danger characteristic:** Flammable: Easily ignited by a heat source, spark or flame. Can form explosive mixture with air. Containers exposed to fire may leak contents through pressure relief valves, thereby increasing the concentration of fire and/or vapor. The steam may travel to the source of the fire and flash back. When heated, the container may explode. Containers exposed to fire may leak contents through pressure relief valves. Heat or contact with flame may result in expansion or explosive decomposition.

**危险特性:** 易燃: 易被热源、火花或火焰点燃。可与空气形成爆炸性混合物。暴露于火中的容器可能会通过压力安全阀泄漏出内容物, 从而增加火势和/或蒸气的浓度。蒸气可能会移动到着火源并回闪。加热时, 容器可能爆炸。暴露于火中的容器可能会通过压力安全阀泄漏出内容物。受热或接触火焰可能会产生膨胀或爆炸性分解。

**Hazardous combustion products:** CO<sub>2</sub>, CO, smoke.

**有害燃烧产物:** CO<sub>2</sub>, CO, 烟雾。

**Fire-Fighting method & media:** The staff must equip with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment. Media: hazy water, foam, powder, CO<sub>2</sub>, sandy clay.

**灭火方法及灭火剂:** 消防人员必须佩戴过滤式防毒面具(全面罩)或隔离式呼吸器、穿全身防火防毒服, 在上风向灭火。尽可能将容器从火场移至空旷处。喷水保持火场容器冷却, 直至灭火结束。处在火场中的容器若已变色或从安全泄压装置中产生声音, 必须马上撤离。灭火剂: 雾状水、泡沫、干粉、二氧化碳、砂土。避免使用直流水灭火, 直流水可能导致可燃性液体的飞溅, 使火势扩散。

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## Section 6 –Accidental Release Measures

### 第六项：泄露应急处理

**Protective measures, protective equipment and emergency procedures for workers:** Eliminate all ignition sources. Delimit the warning zone according to the affected area of the gas, and evacuate irrelevant personnel from the crosswind or upwind to the safety zone. It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and anti-static clothing. Wear antistatic and cold-proof clothing when liquefied gas leaks. All equipment used during operation should be grounded. Do not touch or cross spills. Cut off the source of leakage as much as possible. If possible, turn the container so that it escapes gas instead of liquid. The spray water suppresses the vapor or changes the direction of the vapor cloud to prevent the water from touching the leak. Do not use water to directly impact the leak or leak source. Prevent gas diffusion through sewers, ventilation systems and confined Spaces. Isolate the leak zone until the gas dissipates

**作业人员防护措施、防护装备和应急处置程序：**消除所有点火源。根据气体的影响区域划定警戒区，无关人员从侧风、上风向撤离至安全区。建议应急处理人员戴正压自给式呼吸器，穿防静电服。液化气体泄漏时穿防静电、防寒服。作业时使用的所有设备应接地。禁止接触或跨越泄漏物。尽可能切断泄漏源。若可能翻转容器，使之逸出气体而非液体。喷雾状水抑制蒸气或改变蒸气云流向，避免水流接触泄漏物。禁止用水直接冲击泄漏物或泄漏源。防止气体通过下水道、通风系统和限制性空间扩散。隔离泄漏区直至气体散尽

**Environmental protection measures:** Contain spilled materials to avoid environmental pollution. Prevent leaks from entering sewers, surface water and groundwater.

**环境保护措施：**收容泄漏物，避免污染环境。防止泄漏物进入下水道、地表水和地下水。

The containment and removal methods of the leaked chemicals and the disposal materials used:

泄漏化学品的收容、清除方法及所使用的处置材料：

**Small amount of leakage:** collect the leaking liquid in a sealable container as much as possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. Do not flush into the sewer.

**小量泄漏：**尽可能将泄漏液体收集在可密闭的容器中。用沙土、活性炭或其他惰性材料吸收，并转移至安全场所。禁止冲入下水道。

**A large number of leaks:** build a dike or dig a pit for storage. Close the drainage pipe. Cover with foam to prevent evaporation. Use explosion-proof pump to transfer to tank truck or special collector, recycle or transport to waste disposal site for disposal.

**大量泄漏：**构筑围堤或挖坑收容。封闭排水管道。用泡沫覆盖，抑制蒸发。用防爆泵转移至槽车或专用收集器内，回收或运至废物处理场所处置。

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## Section 7 - Handling and Storage

### 第七项: 操作和储存

**Operation notes:** No open flames, no sparks and no smoking. Closed systems, ventilation, explosion-proof electrical equipment and lighting. Prevent static charge build-up (eg, by grounding). Do not use compressed air for filling, unloading or transfer. Use non-sparking hand tools. Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment.

**操作注意事项:** 禁止明火, 禁止火花和禁止吸烟。密闭系统, 通风, 防爆型电气设备和照明。防止静电荷积聚(例如, 通过接地)。不要使用压缩空气灌装、卸料或转运。使用无火花手工工具。操作人员应经过专门培训, 严格遵守操作规程。操作处置应在具备局部通风或全面通风换气设施的场所进行。避免眼和皮肤的接触, 避免吸入蒸汽。个体防护措施参见第 8 部分。远离火种、热源, 工作场所严禁吸烟。使用防爆型的通风系统和设备。如需罐装, 应控制流速, 且有接地装置, 防止静电积聚。避免与氧化剂等禁配物接触(禁配物参见第 10 部分)。搬运时要轻装轻卸, 防止包装及容器损坏。倒空的容器可能残留有害物。使用后洗手, 禁止在工作场所进饮食。配备相应品种和数量的消防器材及泄漏应急处理设备。

**Storage:** Store in a cool, ventilated warehouse. It should be stored separately from oxidants and edible chemicals, and should not be mixed (see Section 10 for forbidden compounds). Keep the container sealed. Keep away from fire and heat. Lightning protection equipment must be installed in the warehouse. The exhaust system should be equipped with a grounding device to remove static electricity. Explosion-proof lighting and ventilation Settings are adopted. Do not use equipment and tools that may cause sparks. The storage area should be equipped with leak emergency treatment equipment and suitable containment materials.

**储存注意事项:** 储存于阴凉、通风的库房。应与氧化剂、食用化学品分开存放, 切忌混储(禁配物参见第10部分)。保持容器密封。远离火种、热源。库房必须安装避雷设备。排风系统应设有导除静电的接地装置。采用防爆型照明、通风设置。禁止使用易产生火花的设备和工具。储区应备有泄漏应急处理设备和合适的收容材料。

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## Section 8 - Exposure Controls, Personal Protection

### 第八项: 接触控制和个人防护措施

**Maximum admissible concentration:** No standard yet

**最高容许浓度:** 未制定标准

**Monitoring Method:** EN 14042 Guidance on procedures for assessing exposure to chemical or biological agents in workplace air

**监测方法:** EN 14042 工作场所空气 用于评估暴露于化学或生物试剂的程序指南

**Engineering Control:** Work spaces are recommended to be separated from other workspaces. Closed operation to prevent leakage. Enhance ventilation. Set up automatic alarm device and emergency ventilation facilities. Set up emergency evacuation channels and necessary drainage areas. Set up red area warning line, warning mark and Chinese warning description, and set up communication alarm system. Safety shower and eye washing facilities are available

**工程控制:** 作业场所建议与其它作业场所分开。密闭操作, 防止泄漏。加强通风。设置自动报警装置和事故通风设施。设置应急撤离通道和必要的泻险区。设置红色区域警示线、警示标识和中文警示说明, 并设置通讯报警系统。提供安全淋浴和洗眼设备

**Respiratory Protection:** When the concentration in the air exceeds the standard, wear a filter gas mask (half mask). In case of emergency rescue or evacuation, you should wear an air breathing apparatus.

**呼吸系统防护:** 空气中浓度超标时, 佩戴过滤式防毒面具(半面罩)。紧急事态抢救或撤离时, 应该佩戴携气式呼吸器。

**Eyes Protection:** Wear protective chemical safety glasses.

**眼睛防护:** 戴化学安全防护眼镜。

**Body Protection:** Wear an antiseptic penetration suit

**身体防护:** 穿防毒物渗透工作服。

**Hands Protection:** Wear rubber oil-resistant gloves.

**手防护:** 戴橡胶耐油手套。

**Other Protections:** No smoking in the workplace. Keep good habit of hygiene. Shower and eye washing facilities are available.

**其他防护:** 工作现场禁止吸烟。保持良好的卫生习惯。提供淋浴和洗眼设施。

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## Section 9 - Physical and Chemical Properties

### 第九项: 物理和化学特性

**Appearance:** Liquid

外观: 液体

**Color:** Colorless transparent

颜色: 无色透明

**Odour:** Weak odor

气味: 稍有气味

**pH:** No data available.

pH: 无资料

**Boiling point/range:** 75-115° C

沸点/范围: 75-115° C

**Melting point/range:** No data available.

熔点/范围: 无资料

**Flashpoint:** No data available.

闪点: 无资料

**Density:** No data available.

密度: 无资料

**Upper flammable(explosive) limits in air-Lower (vol%)-UEL:** No data available.

空气中的可燃(爆炸)上限(体积%): 无资料

**Vapour pressure:** No data available.

气压: 无资料

**Solubility in water:** insoluble in water

水溶性: 不溶于水

**Partition coefficient((n-octanol / water):** No data available.

分配系数(正辛醇/水): 无资料

**Viscosity:** 0.65mm<sup>2</sup>/s(40°C)

粘度: 0.65mm<sup>2</sup>/s(40°C)

**Vapour density:** 692 kg/m<sup>3</sup>(15°C)

蒸汽密度: 692 kg/m<sup>3</sup>(15°C)

**Evaporation rate:** No data available.

蒸发速度: 无资料

**Ignition temperature:** No data available.

燃点温度: 无资料

**Chemical properties:** Preparation

化学品属性: 配制品

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## Section 10 - Stability and Reactivity

### 第十项：稳定性和反应性

**Stability:** Stable under normal temperature and pressure.

**稳定性:** 常态下稳定

**Dangerous reaction:** Under certain conditions, it can react violently with oxidants such as oxygen, ozone, nitrogen dioxide, halogen (fluorine gas, liquid chlorine, bromine, iodine), etc. even cause fire or explosion

**危险反应:** 在一定条件下, 能与氧气、臭氧、二氧化氮、卤素(氟气、液氯、溴、碘)等氧化剂发生剧烈反应, 甚至导致燃烧或爆炸

**Distribution of Ban:** Strong oxidants, halogens, strong acids, strong bases, etc.

**禁配物:** 强氧化剂、卤素、强酸、强碱等。

**Conditions to Avoid:** Fire, high temperature, Electrostatic discharge, heat, humidity.

**避免接触的条件:** 火源、高温、静电放电、热、潮湿。

**Hazardous Polymerization:** None.

**聚合危害:** 无

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**分解产物:** 正常条件下不会产生分解物及其他刺激性物质。

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## Section 11 - Toxicological Information

### 第十一项: 毒理学信息

#### Acute Toxicity(Butane propellant CAS No.106-97-8):

##### 急性毒性(丁烷 CAS 号 106-97-8):

Oral: No data available.

经口: 无资料

Inhalation: LC50 Rat inhalation 658 mg/l/4 hr

吸入: LC50 Rat inhalation 658 mg/l/4 hr

Dermal: No data available.

经皮: 无资料

#### Sub-acute and Chronic Toxicity: No specific data.

亚急性和慢性毒性: 无相关数据

#### Irritation: No specific data.

刺激性: 无相关数据

#### Sensitization: No specific data.

致敏性: 无相关数据

#### Mutagenicity: No specific data.

致突变性: 无相关数据

#### Carcinogenicity: No specific data.

致癌性: 无相关数据

**Specific Target Organ Toxicity - Single Exposure:** Rapid evaporation of liquid may cause frostbite. The substance may have effects on the central nervous system.

特异性靶器官系统毒性一次接触: 液体迅速蒸发可能引起冻伤。该物质可能对中枢神经系统有影响。

#### Specific target organ toxicity - repeated exposure: no information available

特异性靶器官系统毒性一反复接触: 无资料

**Inhalation Hazard:** When the container is leaked, the liquid rapidly evaporates causing the air in the enclosed space to become supersaturated, posing a serious risk of suffocation.

吸入危害: 容器漏损时, 该液体迅速蒸发造成封闭空间空气中过饱和, 有窒息的严重危险。

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## Section 12 - Ecological Information

### 第十二项: 生态学信息

**Eco-toxicity:** No data available.

生态毒性: 无资料。

**Biodegradable:** No data available.

生物降解性: 无资料。

**Non-biodegradable:** No data available.

非生物降解性: 无资料。

**Bioconcentration or biological accumulation:** No data available.

生物富集或生物积累性: 无资料。

**Other harmful effects:** No data available.

其他有害作用: 无资料。

## Section 13 - Disposal Considerations

### 第十三项: 废弃处置

**Nature of waste:** This product is regarded as hazardous waste, as defined by Regulation (EC) No.1272/2008.

废弃物性质: 本样品被视为危险废物, 所定义的法规(EC)No.1272/2008

**Waste disposal methods:** National and local regulations should be consulted before disposal.

废弃处置方法: 废弃处置前应参阅国家和地方有关法规

**Attention abandoned:**

废弃注意事项:

1) Waste chemicals: Recycle whenever possible. If it cannot be recycled, incineration is used for disposal. This product shall not be disposed of by means of drainage

1)废弃化学品: 尽可能回收利用。如果不能回收利用, 采用焚烧方法进行处置。不得采用排放到下水道的方式废弃处置本品

2) Contaminated packaging: Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

2)污染包装物: 将容器返还生产商或按照国家和地方法规处置。

3) Attention abandoned: National and local regulations should be consulted before disposal. See Section 8 for safety precautions for disposal personnel.

3)废弃注意事项: 废弃处置前应参阅国家和地方有关法规。处置人员的安全防范措施参见第8部分。

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## Section 14 - Transport Information

### 第十四项: 运输信息

	Land transport 陆路运输 (ADR/RID)	Sea transport 海运 (IMDG)	Air transport 空运 (ICAO/IATA)
UN-Number: UN 编号:	Butane propellant 丁烷 (CAS No.:106-97-8) UN1011	Butane propellant 丁烷 (CAS No.:106-97-8) UN1011	Butane propellant 丁烷 (CAS No.:106-97-8) UN1011
Transport hazard class: 运输危险等级:	2.1 Butane propellant 丁烷(CAS No.:106-97-8)	2.1 Butane propellant 丁烷 (CAS No.:106-97-8)	2.1 Butane propellant 丁烷 (CAS No.:106-97-8)
Packaging group: 包装类别:	II	II	II
Marine pollutant/海洋污染物:	No 否	No 否	No 否
Special precautions for user: 用户特别注意事项:	No data available 无资料	No data available 无资料	No data available 无资料
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code/按照 73/78 防污公约附则 II 和 IBC 规则散装运输:	No data available 无资料	No data available 无资料	No data available 无资料

**Packaging Method:** No data available

包装方法: 无资料

**Transport Fashion:** By air, sea, rail,highway.

运输方式: 空运, 海运, 铁路, 公路。

**Transport Attentions:** Examine whether the package of the containers are integrate or not before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put the goods together with oxidizer and strong acid. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source.

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**运输注意事项:** 运输前应先检查包装容器是否完整、密封, 运输过程中要确保容器不泄漏、不倒塌、不坠落、不损坏。严禁与氧化剂、食用化学品等混装混运。运输车船必须彻底清洗、消毒, 否则不得装运其他物品。运输时车辆应避免雨淋和高温, 中途停留时, 车辆应远离明火和高温热源。船运时, 配装位置应远离卧室、厨房, 并与机舱、电源、火源等部位隔离。

## Section 15 - Regulatory Information

### 第十五项: 法规信息

Regulatory Information: ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

法规信息: ISO 11014-2009 化学品安全资料表的内容和项目顺序。

Regulation (EC) No. 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures.

法规(EC)No.1272/2008, 标签和包装的物质和混合物。

## Section 16 - Additional Information

### 第十六项: 其他信息

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

以上信息基于数据准确的基础上, 因为此信息可能在我们无法控制的情况下被应用, 或者被修改, 对此我们不承担任何责任。此信息在收件人决定对材料的专有目的的情况下而配置。

Remark: The evaluation report is based on official website data and customer supply information, only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

备注: 本评估报告基于官网数据和客供信息编制, 仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供参考。

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