

MATERIAL SAFETY DATA SHEET

材料安全数据表

Lithium Polymer Rechargeable Battery

软包锂离子可充电电池

Name: DJI Mic 3 Charging Case

DJI Mic3 充电盒

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Material Safety Data Sheet

材料安全数据表

Section 1-Chemical Product and Company Identification

第 1 节-化学品及企业标识

Product Identification 产品标识

Lithium-Ion polymer battery 软包锂离子电池

Model 型号: DMC03

Nominal Voltage 标称电压: 3.87V

Battery Energy 电池能量: $\leq 20\text{Wh}$

Revision Date 修订日期: 2024-12-31

Expiry date 有效期: 2025-12-31

Manufacturer 生产供应商

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Section 2-Composition/Information on Ingredients

第 2 节-成分/组成信息

Chemical Composition 化学成分	Molecular Formula 分子式	Weight% 重量%	CAS No CAS 号	OSHA (PEL)	ACGIH (TLV)
LiCoO ₂ 钴酸锂	LiCoO ₂	<50%	12190-79-3	N/A	N/A
Polyvinylidene fluoride 聚偏二氟乙烯	(CH ₂ CF ₂) _n	<2%	24937-79-9	N/A	N/A
Graphite powder 石墨粉	C	<30%	7782-42-5	N/A	N/A

Electrolyte 电解液	LiPF6 C ₃ H ₄ O ₃ C ₄ H ₆ O ₃ C ₅ H ₁₀ O ₃	<20%	21324-40-3	N/A	N/A
Polyethylene 聚乙烯	(C ₂ H ₄) n	0.5-5%	9002-88-4	N/A	N/A
Copper foil 铜箔	Cu	<10%	7440-50-8	N/A	N/A
Nickel 镍	Nickel	0.5-5%	7440-02-0	N/A	N/A
Aluminum foil 铝箔	Al	0.5-5%	7429-90-5	N/A	N/A

Section 3-Hazards Identification

第 3 节-危害识别

Preparation hazards and classification 制备危害和分类	Not dangerous with normal use. Do not dismantle, open or shred Li-ion Battery. Exposure to the ingredients contained within or their ingredients products could be harmful. 正常使用无风险。禁止拆解、打开或破坏锂离子电池。 接触电池内部所含成分或其他原料会造成危害。
Appearance, Color, and Odor 外观, 颜色和气味	Solid object with no odor, no color. 固体物质, 无色, 无味
Primary Route(s) of Exposure 主要泄露途径	These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact. 化学品存放在密闭的不锈钢壳内, 只有当电芯受到机械、加热或强电磁辐射, 损害钢壳时, 才会有泄漏的风险。如果发生这种情况,

<p>Potential Health Effects 潜在健康危害:</p>	<p>ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns.</p> <p>Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.</p> <p>Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.</p> <p>Skin: Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause severe irritation or burns to the skin.</p> <p>Eye: Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause severe irritation or burns to the eye.</p> <p>CHRONIC (long term): see Section 11 for additional toxicological data</p> <p>急性（短期）：如果电池破裂，电池内部具有腐蚀性的电解液会导致灼伤，关于泄漏管控的措施，请参阅第 8 节。</p> <p>吸入：正常情况下无法从密闭电池中吸入有害物质。电池破裂产生的蒸汽或雾可能会引起呼吸道刺激。</p> <p>摄入：正常情况下无法从密闭电池中摄入有害物质。吞下破损电池内的物质会导致严重的口腔、食道和胃肠道化学烧伤。</p> <p>皮肤接触：电池和皮肤间的接触不会造成危害。皮肤接触破损电池内的物质会造成严重的刺激或灼伤。</p> <p>眼睛：电池和眼睛间的接触不会造成危害。眼睛接触破损电池内的物质会造成严重的刺激或灼伤。</p> <p>慢性（长期）：有关其他有毒物质说明，请参阅第 11 节。</p>
<p>Medical Conditions Aggravated by Exposure 医疗状况加剧泄漏</p>	<p>Not applicable 不适用</p>
<p>Reported as carcinogen 致癌物质报道</p>	<p>Not applicable 不适用</p>

Section 4-First-aid Measures

第4节-急救措施

Inhalation 吸入	<p>If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.</p> <p>如果吸入打开电池内部的化学物质，要及时清理污染源或将人转移到空气新鲜处，并在医生的建议下治疗。</p>
Skin contact 皮肤接触	<p>If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.</p> <p>如果皮肤接触到打开电池内部的化学物质，请尽快清除受污染衣物、鞋子和皮革制品。立即用流动的温水轻轻冲洗至少 30 分钟。如果仍然感到刺激或疼痛，请立即就医。并在重新使用或丢弃之前，彻底清除受污染的衣物、鞋子和皮革制品。</p>
Eye contact 眼睛接触	<p>If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.</p> <p>如果眼睛接触到打开电池内部的化学物质，请立即用流动的温水轻轻冲洗至少 30 分钟，并保持眼睛张开，使用中性盐水溶液更佳。必要时，在送往急救室治疗时继续保持冲洗。注意不要将受污染的水冲洗到未受伤的眼睛或脸部。需要立即将其送医治疗。</p>
Ingestion 摄入	<p>If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.</p> <p>如果摄入打开电池内部的化学物质，受害人当即失去意识或产生抽搐，请勿用口过渡任何东西。用水彻底清洗受害人口腔。不要催吐，让受害人饮下 60~240mL (2~8 oz.) 的水。若受害人自动呕吐，则将其前倾，降低误吸风险。并再次用水清洗受害人口腔，并立即送医。</p>

Section 5-Fire Fighting Measures

第 5 节-消防措施

Flammable Properties 易燃性	<p>In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.</p> <p>如果电池破裂，则电池内含有的电解液具有易燃性。与其他密闭容器一样，电池在过热条件下可能会发生爆炸；这可能导致易燃性或腐蚀性物质释放。</p>
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Suitable extinguishing Media 合适的灭火器	Use extinguishing media suitable for the materials that are burning. 使用适合扑灭燃烧材料的灭火器。
Unsuitable extinguishing Media 不当的灭火器	Not available 无法使用。
Explosion Data 爆炸数据	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable 机械冲击的灵敏性：在极端情况下可能导致破裂 静放电的灵敏性：不适用
Specific Hazards arising from the chemical 化学品的具体危害	Fires involving Li-ion Battery can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire 锂离子电池起火可以用水扑灭。然而水与锂离子电池接触，可能会有氢气产生。在有限的空间内，氢气会形成爆炸性混合物。在这种情况下，建议用窒息性灭火器灭火。
Protective Equipment and precautions for firefighters 防护设施和消防注意事项	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus(SCBA) with full protective gear. 对于任何火灾，应撤离火灾区域，并在安全范围内灭火。穿戴加压器，自给式呼吸器和全套的防护装备。 从保护区或安全距离灭火。使用 NIOSH/MSHA 认可的全面自给式呼吸器和全套的防护装备。
NFPA 美国消防协会	Health: 0 Flammability: 0 Instability: 0 健康: 0 易燃性: 0 不稳定性: 0

Section 6-Accidental Release Measures

第6节-泄露应急处理

Personal Precautions, protective equipment, and emergency procedures 个人预防、防护设备和急救措施	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8. 禁止进入污染区直到清理完成。禁止触摸泄漏物质。按第 8 节穿戴好个人防护装备。
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Environmental Precautions 环境预防	Prevent material from contaminating soil and from entering sewers or waterways. 防止材料污染土壤，下水道或水道。
Methods and materials for Containment 遏制方法和材料	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 在能确保安全的情况下，阻止继续泄漏。用干沙或泥土掩埋泄漏出的液体。立即清理泄露物质。
Methods and materials for cleaning up 清理方法和材料	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. 用惰性吸收剂（干沙或泥土）吸收泄漏出的物质。将用完的吸收剂放入可接受的废物容器中。收集所有受污染的吸收剂，并按第 13 节中的说明进行处理。用洗涤剂和清水擦洗该区域；收集所有受污染的洗涤水，以便妥善处理。

Section 7-Handling and Storage

第7节-操作处置和储存

Handling 操作处置	Don't handling Li-ion Battery with metalwork. Do not open, disassemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke. 禁止使用金属制品处理锂离子电池。禁止打开、拆卸、碾压或烧毁电池。 确保工作场所良好的通风。 防止灰尘堆积。注意防止爆炸和火灾的提示：远离火源-禁止吸烟。
Storage 储存	If the Li-ion Battery are subject to storage for such a long term as more than 3 months, it is recommended to recharge the Li-ion Battery periodically. 3 months: -10 °C ~+40 °C , 45 to 85%RH And recommended at 0°C~+35°C for long period storage. The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to

	<p>be 80% or more. The voltage for a long time storage shall be 3.6V~4.2V range.</p> <p>如果锂离子电池长期储存超过 3 个月，建议定期给锂离子电池进行充电。</p> <p>3 个月：温度-10℃~+40℃，湿度 45~ 85%RH。建议在 0℃~+35℃长期储存。电池储存后，在交付状态下（50%满充容量）的容量恢复率假设在 80%或以上。长期储存的电压应在 3.6~4.2V。</p>
	<p>Do not storage Li-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.</p> <p>Keep out of reach of children.</p> <p>Do not expose Li-ion Battery to heat or fire.</p> <p>Avoid storage in direct sunlight.</p> <p>Do not store together with oxidizing and acidic materials.</p> <p>禁止将锂离子电池杂乱放置在盒子或抽屉中，否则它们可能会相互碰撞发生短路或者与其他金属物体接触发生短路。</p> <p>请将本品放在儿童不能接触的地方。</p> <p>禁止将锂离子电池暴露在高温或火中。</p> <p>避免阳光直射。</p> <p>禁止与氧化物质和酸性物质一同储存。</p>

Section 8-Exposure Controls/Personal Protection

第8节-接触控制/个人防护

<p>Engineering Controls 工程控制</p>	<p>Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.</p> <p>使用局部排气通风或其他工程控制来管控灰尘、烟雾和蒸汽的来源。远离热源和明火，存放在阴凉干燥处。</p>
<p>Personal Protective Equipment 个人防护设备</p>	<p>Respiratory Protection: Not necessary under normal conditions.</p> <p>Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.</p> <p>Hand protection: Wear neoprene or natural rubber</p>

	<p>material gloves if handling an open or leaking battery.</p> <p>Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.</p> <p>呼吸系统防护：没有必要</p> <p>正常情况：</p> <p>皮肤和身体防护：在正常条件下不需要，如果处理打开或泄露的电池，请戴上氯丁橡胶或丁腈橡胶手套。</p> <p>手部防护：如果处理打开或泄露的电池，请戴上氯丁橡胶或丁腈橡胶手套。</p> <p>眼部防护：在正常条件下不需要，如果处理打开或泄露的电池，请戴上安全镜。</p>
Other Protective Equipment 其他防护设备	<p>Have a safety shower and eye wash fountain readily available in the immediate work area.</p> <p>您可以在附近的工作区域随时使用安全淋浴和洗眼器。</p>
Hygiene Measures 卫生措施	<p>Do not eat, drink, or smoke in work area.</p> <p>Maintain good housekeeping.</p> <p>禁止在工作区域进食、饮水或吸烟。</p> <p>保持良好的卫生管理。</p>

Section 9-Physical and Chemical Properties

第9节-物理和化学特性

Physical State 物理状态	Form: Solid 外形：坚固
	Color: yellow 颜色：黄色
	Odour: Monotony 气味：无味
Change in condition 条件变化:	
pH, with indication of the concentration PH 值：表示浓度	Not applicable 不适用
Melting point/freezing point 熔点/凝固点	Not available. 不适用
Boiling Point, initial boiling point and Boiling Range 沸点，初沸点和沸腾范围:	Not available. 不适用
Flash Point 闪点	Not available. 不适用

Upper/lower flammability or explosive limits 可燃性或爆炸上/下限	Not available. 不适用
Vapor Pressure 蒸汽压力:	Not applicable 不适用
Vapor Density: (Air = 1) 蒸汽密度: (空气=1)	Not applicable 不适用
Density/relative density 密度/相对密度	Not available. 不适用
Solubility in Water: 水中的溶解度	Insoluble 不溶
n-octanol/water partition coefficient 正辛醇/水分配系数	Not available. 不适用
Auto-ignition temperature 自燃温度	If possible remove cell(s) from fire fighting area. if heated above 130°C, cell(s) can explode/ent. Cell is not flammable but internal organic material will burn if the cell is incinerated. 如果可能的话, 将电芯移出消防区域。如果加热超过 130°C 以上, 电芯会发生爆炸。电芯本身不易燃, 但如果电芯被烧毁, 内部的有机物质会燃烧。
Decomposition temperature 分解温度	Not available. 不适用
Odour threshold 气味极限	Not available. 不适用
Evaporation rate 蒸发率	Not available. 不适用
Flammability (soil, gas) 易燃性 (土壤, 气体)	Not available. 不适用
Viscosity 粘性	Not applicable 不适用

Section 10- Stability and Reactivity

第 10 节-稳定性和反应性

Stability 稳定性	The product is stable under normal conditions. 产品在正常条件下稳定。
Conditions to Avoid (e.g. static discharge, shock or vibration) 避免情况 (如: 静电放电, 冲击振动)	Do not subject Li-ion Battery to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse. 禁止让锂离子电池受到机械冲击。

	运输过程中受到的振动不会导致漏液、起火或爆炸。 禁止拆解、挤压，将正负极短路或反装。避免机械或电气滥用。
Incompatible Materials 不相容材料	Not Available 不适用
Hazardous Decomposition Products 危险的分解产物	This material may release toxic fumes if burned or exposed to fire 该材料可能在燃烧或起火时释放有害气体。
Possibility of Hazardous Reaction 有害反应的可能性	Not Available 不适用

Section 11-Toxicological Information

第 11 节-毒理学资料

Irritation 刺激性	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur. 只有当电芯受到机械、加热或电滥用损害外壳时，才会对人体有刺激风险。如果发生这种情况，可能会对皮肤、眼睛和呼吸道产生刺激。
Sensitization 致敏性	Not Available 不适用
Neurological Effects 神经系统的影响	Not Available 不适用
Teratoaenicity 致畸性	Not Available 不适用
Reproductive Toxicity 生殖毒性	Not Available 不适用
Mutagenicity (Genetic Effects) 诱变性(遗传效应)	Not Available 不适用
Toxicologically Synergistic Materials 毒理学协同材料	Not Available 不适用

Section 12-Ecological Information

第 12 节-生态学资料

General note: 一般注意事项:	Water hazard class 1(Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 水危害级别 1 (自我评估): 对水有轻微污染 禁止将未稀释或大量的产品倒入地下水、水源或污水处理系统中。
Anticipated behavior of a chemical product in environment/possible environmental impace / ecotoxicity	Not Available 不适用
Mobility in soil 土壤中的移动性	Not Available 不适用
Persistence and Degradability 持久性和降解性	Not Available 不适用
Bioaccumulation potential 富集可能性	Not Available 不适用
Other Adverse Effects 其他不良影响	Not Available 不适用

Section 13-Disposal Considerations

第 13 节-废弃处置注意事项

Product disposal recommendation: Observe local, state and federal laws and regulations. Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

产品废弃处理建议: 遵守当地, 州和联邦的法律法规。包装废弃处理建议: 请注意丢弃的电池可能会引起火灾, 请将电池两端用胶带隔离。禁止拆卸电池。将电池容器完全放电 (无残液, 无剩余粉末, 避免刮擦)。容器可以回收或重复使用。遵守当地, 州和联邦的法律法规。

The potential effects on the environment and human health of the substances used in batteries and accumulations; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling.

电池和蓄电池中的使用的物质对环境和人体健康的潜在影响; 不将电池和蓄电池作为未分类的城市垃圾处理, 将其单独收集以便进行处理和回收。

Section 14-Transport Information

第 14 节-运输信息

This report applies to by sea, by air and by land;本报告适用于海运、空运、陆运;

The Li-ion Battery tested according to the requirements of the 9th revised edition of the UN manual of tests and Criteria, Part III, subsection 38.3;

锂离子电池按照联合国测试和标准手册第9次修订版（第III部分，第38.3小节）的要求进行测试;

Lithium ion battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

保护锂离子电池，防止短路。包括防止在同一包装内与导电材料相接触，从而造成短路;

The LITHIUM ION BATTERY according to Section II of PACKING INSTRUCTION 965-967 of the IATA Dangerous Goods regulations 66th Edition may be transported and applicable U.S.DOT regulations for the safe transport of Li-ion Battery.

锂离子电池运输根据 IATA 危险品法规第 66 版包装规范第 965-967 章第 II 节，并适用于美国国防部关于锂离子电池安全运输的规定。

More information concerning shipping, testing, marking and packaging can be obtained from label master at <http://www.labelmaster.com/>.

关于运输，测试，标签和包装的更多信息，请访问<http://www.labelmaster.com/>

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

包装应尽量避免在运输、搬运和堆放的过程受到机械损伤。包装应选择能够防止意外导电、腐蚀和浸湿的设计和材料。

The package must be handled with care and that a flammability hazard exists if the package is damaged; With regard to transport, the following regulations are cited and considered:

包装必须小心处理，如果包装破损，则存在易燃危险；关于锂离子电池的运输，可以引用和论证以下规定：

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- 国际民用航空组织(ICAO)技术说明。
- The International Air transport Association (IATA) Dangerous Goods Regulations. UN number of lithium battery: UN3480 or UN3481;
- 国际航空运输协会（IATA）危险货物规定。锂电池UN号：UN3480 或 UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN特定的运输名称/描述（技术名称）：锂离子电池或安装在设备中或与设备包装在一起的锂离子电池

UN Classification (Transport hazard class): Non dangerous;

UN分类（运输危险类）：非危险；

Marine pollutant (Y/N): N;

海洋污染物(是/否): 否;

- The International Maritime Dangerous Goods (IMDG) Code.
- 国际海运危险货物(IMDG)准则

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit. UN number of lithium battery: UN3480 or UN3481;

锂离子电池海上运输，需要包装牢固，防止电池短路。锂电池UN号：UN3480 或 UN3481;

For the sea transport identification certificate, please refer to : IMDG (Amdt.41-22) 2022 edition;

海运运输鉴定书依据的运输法规参考IMDG (Amdt.41-22) 2022 edition

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in

equipment or Lithium ion batteries packed with equipment;

UN特定的运输名称/描述（技术名称）：锂离子电池或安装在设备中或与设备包装在一起的锂离子电池；

UN Classification (Transport hazard class): Non dangerous; Marine pollutant (Y/N): N;

UN分类（运输危险类）：非危险；海洋污染物(是/否)：否；

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

特别规定：国际海运危险货物(IMDG)准则188, 230, 310, 348, 957;

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- 美国危险品法规(HMR)根据RSPA发布的最终法规
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)
- 美国交通部危险品安办公室(DOT)研究所和特殊项目管理局(RSPA)

Section 15-Regulatory Information

第 15 节-法规信息

OSHA hazard communication standard (29 CFR 1910.1200)

OSHA 危害通信标准(29 CFR 1910.1200)

_____Hazardous危险

_____V_____Non-hazardous无危险

Section 16-Other Information

第 16 节-其他信息

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