

### Hubei Xianlin Chemical Co., Ltd.

电话 Tel: +86-728-3258321 邮箱(出口 Export)E-mail: <a href="mailto:sales@hbxlchem.com">sales@hbxlchem.com</a>

传真 Fax: +86-728-3258270 邮箱(内贸 Trade)E-mail: <a href="mailto:hbxlchem@126.com">hbxlchem@126.com</a>

地址 Add:中国湖北省仙桃市杜家台 Dujiatai Xiantao City Hubei province China

# 2-Butanone Oxime (MEKO) Material Safety Data Sheet

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Chemical Name In Chinese: 丁酮肟

Chemical Common Name Or Product Name: Methyl Ethyl Ketoxime; Methyl Ethyl Ketone Oxime;

2-Butanone Oxime; Methyl Ethylene Ketone Fat;

Cas No: 96-29-7

Company Name: Hubei Xianlin Chemical Co., Ltd

Company Address: Dujiatai, Xiantao City, Hubei Province, China

**Zip Code:** 433000

E-Mail Address: sales@hbxlchem.com

Fax Number: 0728-3258351

Emergency Telephone: 0728-3258349

**Technical Instruction Code:** 

Effective Date: 20th September, 2013

National Chemical Accident Emergency Hotline: 0532-83889090

#### SECTION 2 HAZARDS IDENTIFICATION

Risk Category: III Inflammable Liquid

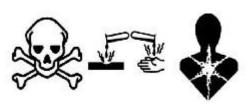
**Invasion Route:** Invade mainly through the digestive, respiratory tract and skin.

**Health Hazard:** This product can irritate the eyes, skin, mucous membrane and upper respiratory

tract. May be harmful if swallowed or inhalation.

**Environmental Harm:** The substance is toxic to aquatic organisms. **Explosive Danger:** This product is flammable and irritant.

**Label elements**Hazard Pictograms:





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Precautions: Keep away from heat source, spark, fire and hot surface. Smoking is prohibited. Container should be earthed. Electric, ventilation, and lighting equipments should be explosive proof. Wear protection gloves, glasses and mask. After operation thoroughly wash the contacted part of the body so that the material will not be released into the environement.

Accident Response: In case of personal harm, immediately transfer the victim to where fres h air can be breathed and keep the victim in a gesture that is good for breathing. If the victim has respiration barrier, oxygen should be administered. If the victim stops respiration, artificial respiration should be adopted and the victim should be sent to hospital. In case eyes are contaminated, wash by large amount of water or soup water for at least 30 minutes, and then accepts medical treatment. If leakage happens, please collect the leakages. If fire hazard happens, use fog like water, dry powder or carbon dioxide or sand soil.

Safe Storage: Store in cool and ventilated warehouse. Avoid fire and heat source.

Warehouse temperature should not exceed 30°C. Keep the container well sealed. It should be seprated from oxidant, strong acid.

Physical and Chemical Dangers: combustible liquid under normal pressure and temperature.

Its vapor can form explosive mixture with the air; It is not compatible with strong oxidant, strong acid, stro ng base and peroxide. It may explode if mixed up with strong acid. Reaction with strong acid can produc e flammables.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Purity: Yes

Chemical Name: **MEKO** 

**Injurant ingredients:** 2-Butanone Oxime

Concentration:  $\geq 99.5\%$ 

CAS No : 96-29-7

#### SECTION 4 FIRST AID MEASURES

**Skin Exposure:** Remove contaminated clothing and wash with soapy water thoroughly.

**Eye Contact:** Immediately rinse eyelids, with plenty of liquid water or saline thoroughly. Go to a doctor. **Inhalation:** Immediately keep away from the scene to fresh air place. Keep respiratory tract unobstructed, for example, perform oxygen when breathing is difficult. Immediately perform a rtificial respiration and cardiac massage when stop breathing and heartbeat. Go to a doctor.

**Ingestion:** Give mouthwash fully as soon as possible, let him/ her drink water then induce



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vomitting. Call a physician.

#### SECTION 5 FIRE PROTECTION

**Hazardous Characteristic:** Its vapor and air form explosive mixture, encounter caused an explosion of the burning flame, high heat. Strong reaction can occur when meeting with oxidant.

Hazardous Combustion (Decomposition) Product: CO, CO2, Nitric Oxide

**Extinguishing Method:** Firefighters must wear a mask and safety firefighter uniform standing in the upwind. Remove the container from fireground to empty place as far as possible. Spray water to keep the fire container cooling until the end of extingiushment. Personnel must leave If the container has been in discoloration or generate sound from the safety decompression device. Jet water to overflow. Make it dilute into incombustible mixture and protect the firemen with spray water.

**Extinguishant:** Use water spray, foam, carbon dioxide, dry powder, sand.

Fire-Fighting Precautions: No data

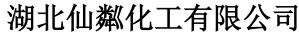
#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Treatment: Immediately evacuate personnel to safe areas, in isolation and strictly limit access. Cut off the fire. Recommend emergencypersonnel wearing positive pressure res pirator, in anti- overalls. Cut off leakage source as far as possible. Prevent flowing into the restricted space of sewer, ditch and so on. Small quantity leakage: to adsorb or assimilate with sand or other incombustible material, shovel into the container to recycle with the spade. Rinse with a lot of water, then going into the wastewater system after wash water diluted. Mass leakage: dig a hole or construct cofferdam. Cover with foam, reduce the vapor disaster s. Transfer to tank or in a dedicated container with explosion-proof pump and recycle or shi p to the waste disposal places.

**Elimination Method:** Check safety equipment at fixed period to ensure no leakage.

#### SECTION 7 HANDLING AND STORAGE

**Operation Caution:** Airtight operation, general ventilation. Operators must receive special training and abide by the operation procedures strictly. Suggest operators wear self-absorption filter type of gas mask (mask covering half face), wear chemical safety goggles, in anti-static overalls and wear rubber gloves. Away from fire and heat source, strictly prohibit smoking at the workplace. Use explosion-proof



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ventilation system and equipment. Prevent the steam leak into the air at workplace. Avoid contact with oxidant, reductant and alkali. The flow velocity should be controlled when filling and a grounding device must be equipped with. Prevent electrostatic accumulation. Light load and discharge when handling in order to prevent packaging and container damage. Empty containers may have residual remains inside.

**Storage precaution:** Store in a cool and ventilated warehouse. Away from fire and heat source. Temperature in warehouse should not be more than 30 °C. Keep container tightly closed. It should be stored apart from oxidant or strong acid. Keep away from food, drink and animal feed. Use explosion-proof lighting and ventilation facilities. Ban to use the mechanical equipments and tools which are easy to spark. Equip with corresponding variety and quantity of fire-fighting, emergency treatment equipments and appropriate leakage of absorption materials.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OEL: China MAC(mg/m3): No standards

Monitoring Method: Gas Chromatographic Method

**Engineering Control:** Be airtight in production process, strengthen ventilation.

Respiratory Protection: Wear a gas mask when higher concentration in the air. One should wear a

self-contained breathing apparatus in emergency rescue or escape.

Eye Protection: Generally speaking, it is no need with special protection. Wear safeguard glasses

when contact with high concentration.

**Body Protection:** Wear appropriate protective protection suit.

**Hand Protection:** Wear protective chemical gloves. Also the skin protective film can be used.

Other Protection: No smoking, eating and drinking at work site. Shower and change clothes after

work.

#### SECTION9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Character: Colorless Transparent Clear Oily Liquid

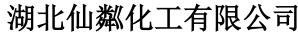
Melting Point (°C): -29.5°C Boiling Point (°C): 152.5°C (101.3kPa)
Relative Density (water=1): 0.92 (20°C) Relative Steam Density (air density =1): 3.0

Viscosity: 4.4cp (25°C) Flash(lng) Point: 60°C

**Autoignition Temperature: 315℃** 

Upper Explosive Limit (%,V/V): 12.3 Lower Explosive Limit (%,V/V): 1.9

Solubleness: Soluble In Alcohol, Ether, Ketones, Hydrocarbon And Other Most Organic Solvents



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Water Solubility: 114g/L(25℃), Approximately 1: 10 soluble in water

**Main Application:** It is a kind of oil-based paint antioxidant. High purity of this product can be used for synthesis of organosilicon crosslinking agent, silicon curing agent and isocyanate sealant; In a variety of alkyd resin paint, epoxy resin, polyurethane type storage process, it acts as the effect of anti-skinning and stable viscosity. It can be used in organic synthesis.

#### SECTION 10 STABILITY AND REACTIVITY

Stability: Stable Under Normal Temperature And Pressure

Prohibited Content: Strong Oxidant, Strong Acid

**No Contact Conditions:** Avoid heat, fire source and incompatible materials.

Hazardous Polymerization: No

**Decomposition Substance:** CO CO2 Nitric Oxide

#### SECTION11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Rat Through The Mouth LD<sub>50</sub>930mg/kg; Rat By Suction LD<sub>50</sub>: Greater Than 50mg/4H

Rat by Skin Contact LD: Greater Than 2mg/kg; Rat by subcutaneous LD<sub>50</sub>: 2702mg/kg

Mice by The Abdominal Cavity LD50: 200mg/kg; Rabbit by Skin Contact LD50: 200ug/kg;

Chronic Toxicity Carcinogenicity: Rat Inhale through The Mouth TCL<sub>0</sub>: 75ppm/6H/26W-I.

Irritation: Contact Reaction Severity of The Rabbit Eyes 100 ul: Serious

Sensitization: No data

Mutagenicity: Lymphocyte Mutation of Mice: 4600mg/L

Teratogenicity: No Data

Other Multi-dose Toxicity: Rat through Mouth TDL<sub>0</sub>: 6825mg/kg/13W; Rat by SuctionTCL<sub>0</sub>:

400ppm/6H/4W-I; Rat by SuctionTCL0: 1000 ppm /6H/8W-I.

Rats by subcutaneousTCL0: 14ml/kg/4W-I;

Mice by SuctionTCL0: 400ppm/6H/4W-I;

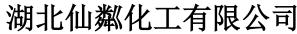
Mice by SuctionTCL0: 1000ppm/6H/8W-I .

### SECTION12 ECOLOGICAL INFORMATION

**Ecological Toxicity:** No Data

Biodegradability: No Data

Non-Biological Degradability: No Data



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Biological enrichment or accumulation: No Data

**Other Harmful Effects:** The material has a little damage to water.

#### SECTION13 DISPOSAL CONSIDERATIONS

Nature of the Waste: Non Dangerous Substance

Waste Disposal Method: With Reference to the Relevant Provisions of the State.

Waste Precautions: Suggest processing personnel to wear gas masks and chemical protective

clothing.

#### SECTION 14 TRANSPORTATION INFORMATION

Dangerous Goods No: UN 1993 3/PG 3

UN No.: 1993

Packaging Class: III

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S

Packaging Method: Steel Drum with Small Opening: Ampoule Bottle with

Wooden Case Outside: Glass Bottle with Screw Thread Mouth Glass Bottle with Iron Cover Plastic

Bottle or Metal Drum (Pot) with Wooden Case Outside

Transport Considerations: Transport vehicles should be equipped with corresponding variety and quantity of fire-fighting equipments and spill emergency processing equipment s during transport. It is better to transport in the morning or evening in summer. Transportation tank used should have safety chain, Slot can be set hole clapboard is shaken to reduce static. It is strictly prohibited to mix loading and transport with oxidant, reductant, alkali, food chemicals and so on. Pay attention to insolation, rain and heat during transit. It should be far away from fire, heat source and high temperature when stopover. Shipment of the goods vehicle exhaust pipe must be equipped with fire equipment. The exhaust pipes of MEKO goods vehicles must equip with fire retardance apparatus. Ban the use of the mechanical equipments and tools which are easy to spark for loading and unloading. Transport according to highway transportation route as prescribed, do not stay in residential areas and densely populated area. No humping during railway transportation. It is strictly prohibited to use wooden boats, concrete boats to bulk transport.

#### SECTION 15 REGULATORY INFORMATION

《Dangerous Chemical Goods Safety Management Regulations》 Regulatory Information:



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(Effective on 1st December , 2011), 《Dangerous Chemical Goods Safety Management Regulations And Implementing Rules》 (NO. 677 [1992] Issued by Chemical Labour), 《Stipulation On Safety Use Of Chemicals At Workplace》 (According to NO.423 [1996] and other laws and regulations issued by Labor Department, make the corresponding provisions for the safe use, production, storage, transportation, loading and unloading, etc. of hazardous chemicals; 《Classification And Sign Of Dangerous Chemicals Commonly Used》 (According to GB 13690-92, the material is divided into class 3.2 flash point flammable liquid.)

#### **SECTION 16 OTHER INFORMATION**

References: No Data

Compiling Time: 20th September, 2013

Application Form Department: Safety and Environmental Protection Department of Hubei Xianlin

Chemical Co., Ltd

Data Audit Department: Safety Production Supervision and Administration Bureau of Xiantao City

**Edit Description:** No Data **Other Information:** No Data

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## 化学品安全技术说明书

## 第一部分 化学品及企业标识

化学品中文名:甲乙酮肟,2-丁酮肟

化学品英文名: Methyl Ethyl Ketoxime; 2-Butanone oxime

**企业名称**:湖北仙粼化工有限公司 **企业地址**:湖北省仙桃市杜家台

邮 编: 433000

联系电话: 0728-3258350

电子邮件地址: xtdcj.2222@163.com

企业应急电话: 0728-3258349

国家化学事故应急咨询专线: 0532-83889090

**产品推荐及限制用途:** 广泛用于涂料、油漆及油墨防结皮剂,异氰酸酯封闭剂,有机 硅交联剂,有机合成中间体等。

## 第二部分 危险性说明

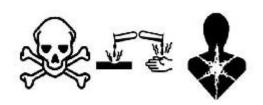
紧急情况概述: 易燃, 具刺激性。

GHS 危险性类别:

易燃液体 类别 3 急性毒性-皮肤 类别 4 皮肤腐蚀/刺激性 类别 1 严重眼损伤/眼睛刺激性 类别 1

#### 标签要素:

象形图:



警示词: 危险

危险信息: 易燃液体,蒸汽与空气能形成爆炸性混合物。

防范说明:

**预防措施**:远离热源、火花、明火、热表面,禁止吸烟。容器和接受设备接地。 使用防爆的电气、通风和照明。戴防护手套和防护眼镜、防护面罩,操作后彻底清洗



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身体接触部位,避免释放到环境中。

**事故响应**:立即将患者转移至空气新鲜处,休息,保持有利于呼吸的体位。如呼吸困难,给输氧。如呼吸停止,立即进行人工呼吸。就医。眼睛皮肤接触,用大量流动清水或肥皂水冲洗至少30分钟。就医。如泄漏,收集泄漏物。发生火灾时,使用雾状水、干粉或二氧化碳、砂土。

**安全储存**:储存于阴凉、通风的库房。远离火种、热源。库温不宜超过 **30**℃。保持容器密封。应与氧化剂、强酸分开存放,切忌混储。

**废弃处置**:如果可能,回收处理。废弃处置时遵守国家、地区和当地的所有法规。 物理和化学危险:常温常压下稳定,易燃液体,蒸汽与空气能形成爆炸性混合物; 与强氧化剂、强酸、强碱和过氧化物等不相容,与强酸混合可能发生爆炸,与强酸反应生产易燃物质。

**健康危害**:对眼睛、皮肤、粘膜和上呼吸道有刺激作用。误服或吸入对身体有害。 **环境危害**:对水生生物有毒。

## 第三部分 成分/组成信息

纯品

组分浓度或浓度范围CAS No.丁酮肟99.5%96-29-7

## 第四部分 急救措施

#### 急救:

皮肤接触: 脱去污染的衣着, 用肥皂水及清水彻底清洗。

眼睛接触:立即提起眼睑,用大量流动清水或生理盐水彻底清洗。就医。

**吸入**:立即脱离现场至空气新鲜处,保持呼吸道通畅。如呼吸困难时给氧。呼吸 及心跳停止者立即进行人工呼吸和心脏按摩术。就医。

食入: 误服者尽快给充分漱口、饮水、催吐。就医。

## 第五部分 消防措施

**特别危险性:** 其蒸汽与空气形成爆炸性混合物,遇明火、高热能引起燃烧爆炸。与氧化剂能发生强烈反应。遇高热发生剧烈分解,甚至发生爆炸。



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#### 灭火剂:

可用雾状水、泡沫、二氧化碳、干粉、砂土。

#### 灭火注意事项及防护措施:

消防人员须佩戴携气式呼吸器,穿全身消防服,在上风向灭火。

## 第六部分 泄漏应急处理

#### 作业人员防护措施、防护装备和应急处置程序:

迅速撤离泄漏污染区人员至安全区,并进行隔离,严格限制出入。切断火源。建 议应急处理人员戴自给正压式呼吸器,穿防静电工作服。尽可能切断泄漏源。防止流 入下水道、排洪沟等限制性空间。

环境保护措施: 收容泄漏物, 防止泄漏物进入下水道、地表水和地下水。

#### 泄漏化学品的收容、清除方法及所使用的处置材料:

小量泄漏:用砂土或其它不燃材料吸附或吸收,用铁铲等铲到容器中回收。也可以用大量水冲洗,洗水稀释后放入废水系统。

大量泄漏:构筑围堤或挖坑收容。用泡沫覆盖,降低蒸气灾害。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。

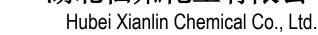
## 第七部分 操作处置与储存

#### 操作注意事项:

密闭操作,全面通风。操作人员必须经过专门培训,严格遵守操作规程。建议操作人员佩戴自吸过滤式防毒面具(半面罩),戴化学安全防护眼镜,穿防静电工作服,戴橡胶耐油手套。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。防止蒸气泄漏到工作场所空气中。避免与氧化剂、还原剂、碱类接触。灌装时应控制流速,且有接地装置,防止静电积聚。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。

#### 储存注意事项:

储存于阴凉、通风的库房。远离火种、热源。库温不宜超过 30℃。保持容器密封。应与氧化剂、强酸分开存放,切忌混储。保持远离食品、饮料和动物饲料。采用防爆型照明、通风设施。禁止使用易产生火花的机械设备和工具,并配备相应品种、数量的消防器材及泄漏应急处理设备和合适的收容材料。



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## 第八部分 接触控制/个人防护

接触限值:无资料 生物限值:无资料 监测方法:无资料

工程控制: 密闭操作,加强通风。

个体防护装备:

**呼吸系统防护**:空气中浓度超标时,佩带防毒面具,紧急事态抢救或逃生时,应该佩带自给式呼吸器。

眼睛防护:一般不需特殊防护,高浓度接触时可戴化学安全防护眼镜。

**身体防护**: 穿相应的防护服。

**手防护**: 戴防护化学品手套。也可使用皮肤防护膜。

其他防护:工作现场禁止吸烟、进食和饮水。工作后淋浴更衣。

## 第九部分 理化特性

外观与性状: 无色透明清澈油状液体。

PH 值: PH= 7~8 熔点(℃):-29.5 沸点(℃):152~153 爆炸上限(%): 7 (V/V)

爆炸上限(%): / (V/V) 点燃油度(℃)、265

自燃温度(℃): 265

水溶性: 114g/L(25℃) 大约 1: 10 溶于水

液体相对密度: 0.922 (水=1)

蒸气相对密度: 3.0 (20℃, 空气=1)

闪点(℃): 60

爆炸下限(%): 1.3 (V/V) 分解温度(℃): 无资料

## 第十部分 稳定性和反应性

稳定性: 在正常环境温度下储存和使用, 本品稳定。

禁配物:强氧化剂、强酸。

避免接触的条件: 高热、火源。

危险反应:与强酸混合可能发生爆炸,与强酸反应生产易燃物质。

危险分解产物:一氧化碳、二氧化碳、氧化氮。



电话 Tel: +86-728-3258321 邮箱(出口 Export)E-mail: sales@hbxlchem.com

传真 Fax: +86-728-3258270 邮箱(内贸 Trade)E-mail: hbxlchem@126.com

地址 Add:中国湖北省仙桃市杜家台 Dujiatai Xiantao City Hubei province China

## 第十一部分 毒理学信息

**急性毒性:** 大鼠经口 LD50: 930mg/kg; 大鼠经吸入 LD50: 大于 50mg/4H;

大鼠经皮肤接触 LD: 大于 2mg/kg; 大鼠经皮下 LD50: 2702mg/kg;

小鼠经腹腔 LD50: 200mg/kg; 兔子经皮肤接触 LD50: 200ug/kg;

皮肤刺激或腐蚀:会引起皮肤红肿、水泡及组织受损。

眼睛刺激或腐蚀: 兔子眼睛接触 100uL 反应的严重程度: 严重

呼吸:会引起咳嗽、头晕、气促。

生殖细胞突变性: 小鼠淋巴细胞突变:4600mg/L

**致癌性:** 暂无 **生殖毒性:** 暂无

特异性靶器官系统毒性-一次接触: 暂无

特异性靶器官系统毒性-反复接触: 暂无

吸入危害: 呼吸困难、头晕。

## 第十二部分 生态学资料

生态毒理毒性:无资料 生物降解性:无资料 非生物降解性:无资料

生物富集或生物积累性: 无资料

其它有害作用: 该物质对水有稍微的危害。

## 第十三部分 废弃处置

#### 废弃处置方法:

废弃化学品: 回收处理。

**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。 **废弃注意事项**:废弃处置时遵守国家、地区和当地的所有法规。

## 第十四部分 运输信息

联合国危险货物编号(UN号): 1993

联合国运输名称: 丁酮肟

包装类别:Ⅲ



### Hubei Xianlin Chemical Co., Ltd.

电话 Tel: +86-728-3258321 邮箱(出口 Export)E-mail: sales@hbxlchem.com

传真 Fax: +86-728-3258270 邮箱(内贸 Trade)E-mail: <a href="mailto:hbxlchem@126.com">hbxlchem@126.com</a>

地址 Add:中国湖北省仙桃市杜家台 Dujiatai Xiantao City Hubei province China

包装标志: 易燃液体

包装方法: 小开口聚乙烯塑料桶; 螺纹口玻璃瓶、塑料瓶外木箱。

海洋污染物(是/否): 否

运输注意事项:

运输时运输车辆应配备相应品种和数量的消防器材及泄漏应急处理设备。夏季最好早晚运输。运输时所用的槽(罐)车应有接地链,槽内可设孔隔板以减少震荡产生静电。严禁与氧化剂、还原剂、碱类、食用化学品等混装混运。运输途中应防曝晒、雨淋,防高温。中途停留时应远离火种、热源、高温区。装运该物品的车辆排气管必须配备阻火装置,禁止使用易产生火花的机械设备和工具装卸。公路运输时要按规定路线行驶,勿在居民区和人口稠密区停留。铁路运输时要禁止溜放。严禁用木船、水泥船散装运输。

## 第十五部分 法规信息

**法规信息:** 下列法律和标准,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的规定:

化学品分类、警示标签和警示性说明规范系列标准 (GB 20576-2006~GB20602-2006)。

《危险化学品名录》: 未列入:

《剧毒化学品名录》: 未列入:

《危险货物品名表》(GB 12268-2012): 未列入。

## 第十六部分 其他信息

参考文献:

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填表部门: 湖北仙粼化工有限公司安全环保部

数据审核单位: 湖北仙粼化工有限公司安全环保部

修改说明: 其他信息: