

化学品安全说明书

(漫度次氯酸免洗手消毒液)

MSDS

(Mundus Hypochlorous Acid Hand Sanitizer)

MSDS Report NO : **WP-19102537-HJ-01C1-E**



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MSDS

报告编号 Report No.	WP-20032381-HJ-01C1-E
品名 Sample Name	瑞蒙德™次氯酸免手洗消毒液 Raymond Hypochlorous acid hand sanitizer
委托单位 Client	瑞蒙德（武汉）有限责任公司 Raymond Thermal (Wuhan) Co., Ltd.



Jiangsu Micro Spectrum Detection Technology Co., Ltd.

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Applicant 申请人	:	Raymond Thermal (Wuhan) Co., Ltd. 瑞蒙德 (武汉) 有限责任公司
Manufacturer 制造商	:	Raymond Thermal (Wuhan) Co., Ltd. 瑞蒙德 (武汉) 有限责任公司 Raymond Hypochlorous acid hand sanitizer 瑞蒙德™ 次氯酸免手洗消毒液
Product Name 产品名称	:	
Model 型号	:	/
Trade 商标	:	Raymond 瑞蒙德™

This report is limited to the above applicant company and the product model only.

本报告仅限于以上所述的申请公司及对应的产品和型号

This Chemical Safety Technical Specification (SDS) only meets the local regulatory requirements and standards of the applicable regulation and may not meet the regulatory requirements of other countries. 本技术说明书仅证明本说明书依据相关的法律法规进行编制，并不证明足以满足其他国家或地区的要求。(according to GHS Rev.3 and European Regulation No.1272/2008, No.1907/2006 and its amendments)

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(根据 GHS Rev.3 和欧洲条例第 1272/2008 号、第 1907/2006 号及其修正案)

SECTION 1: IDENTIFICATION OF PRODUCT AND SUPPLIER

第一部分 化学品及企业标识

1.1 Product Identifiers 产品标识

Product Name: Raymond Hypochlorous acid hand sanitizer
 产品名称 瑞蒙德™次氯酸免手洗消毒液

Model: /
 型号

1.2 Relevant identified uses of the substance or mixture and uses advised against 有关的确定的物质或混合物的用途和建议不适合的用途

Identified uses: /
 标识的用途

Export to: /
 出口国别

1.3 Details of the supplier of the safety data sheet 化学品/材料生产商详情

Manufacturer: Raymond Thermal (Wuhan) Co., Ltd.
 制造商 瑞蒙德（武汉）有限责任公司

Address:
 地址

TEL: 15002708586 ZIP Code: /
 电话 邮政区号

E-Mail: 71193825@qq.com
 电邮

Emergency telephone number:
 应急联系电话

Weekday: 15002708586
 工作日

Night & Holiday: 15002708586
 夜间及节假日

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SECTION 2: HAZARDS IDENTIFICATION**第二部分 危险性鉴别**

2.1	GHS Risk Categories GHS 风险类别	
	Non-hazardous classification 无危害分类	
2.2	GHS Label elements including precautionary statements GHS 标签要素, 包括防范说明:	
	Pictograms: 象形图	No danger pictograph 无危险象形图
	Signal Word: 警示词	No warning word 无警示词
	Risk description: 危险性说明	
	Precaution 预防措施	No 无
	Accident response 事故响应	No 无
	Safe storage 安全储存	No 无
	Disposal 废弃处置	No 无
	Health hazards 健康危险	No 无
	Environmental hazard 环境危害	No 无
	Physical and chemical hazards 物理和化学危险	物理和化学危险
	No known information 无已知资料。	

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

第三部分 成分/组分信息

3.1 Substance or mixture
物质或混合物的定义

Mixture
混合物

3.2 Information about the chemical nature of product
关于产品化学成分的信息

Common chemical name /general name 通用化学名称或通用名称	CAS number CAS 编号	EC Number EC 编号	Concentration/Concentration range 浓度或浓度范围
Hypochlorous acid 次氯酸	7790-92-3	231-791-2	0.018%
Water 水	7732-18-5	232-232-5	99.982%

SECTION 4: FIRST AID MEASURES

第四部分 首要的急救措施

4.1 Description of first aid measures
首要的急救措施描述

Eye contact:
眼部接触

Separate eyelids and rinse with running water or normal saline. Seek medical attention immediately.
分开眼睑，用流动清水或生理盐水冲洗。立即就医。

Skin Contact:
皮肤接触

If you feel unwell, seek medical advice.
如有不适感，就医。

Inhalation:
吸入

If inhaled, remove victim to fresh air.
如果吸入，请将患者移到新鲜空气处。

Ingestion:
食入

Gargle, do not induce vomiting. Seek medical attention immediately.
漱口，禁止催吐。立即就医。

4.2 Advice to protect the rescuer
对保护施救者的忠告

Move the patient to a safe place. Consult your doctor. Show the chemical safety instruction to the doctor on the spot.

将患者转移到安全的场所。咨询医生。出示此化学品安全技术说明书给到现场的医生看。

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4.3 Indication of any immediate medical attention and special treatment needed
及时的医疗处理和所需的特殊处理的说明或指示

No data available
无数据资料

SECTION 5: FIRE-FIGHTING MEASURES

第五部分 首要的消防措施

5.1 Extinguishing Media
灭火介质

Use water mist, dry powder, foam or carbon dioxide extinguishing agent.
用水雾、干粉、泡沫或二氧化碳灭火剂灭火。

Avoid using direct running water, which can cause a splash of flammable liquid and spread the fire.

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。

5.2 Precautions and protective measures against fire
灭火的注意事项及保护措施

Carbon oxides, Nitrogen oxides .
碳氧化物，氮氧化物。

Fire fighters are required to wear air breathing apparatus and full body fire fighting clothing to fight the fire upwind.

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。

Remove containers from the fire as much as possible into the open.

尽可能将容器从火场移至空旷处。

Containers in the fire must be evacuated immediately if they have become discolored or sound from the safety relief device.

处在火场中的容器若已变色或从安全泄压装置中发出声音，必须马上撤离。

Isolate the scene of the accident and prohibit the entry of irrelevant personnel.

隔离事故现场，禁止无关人员进入。

Take in and treat fire water to prevent pollution.

收容和处理消防水，防止污染环境。

SECTION 6: ACCIDENTAL RELEASE MEASURES

第六部分 泄露应急处理

6.1 Personal precautions protective equipment and emergency procedures
作业人员个人防护措施、防护装备和应急处理程序

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Emergency personnel are advised to wear breathing apparatus, anti-static clothing and rubber oil-resistant gloves.

建议应急处理人员戴携气式呼吸器，穿防静电服，戴橡胶耐油手套；

Do not touch or cross the spill;

禁止接触或跨越泄露物；

All equipment used in the operation shall be connected to the ground;

作业时使用的所有设备应接地；

As far as possible to cut off the source of leakage;

尽可能切断泄露源；

Eliminate all ignition sources;

消除所有点火源；

According to the influence area of liquid flow, steam or dust diffusion, the warning area is defined, and the irrelevant personnel are evacuated from the crosswind and upwind to the safe area.

根据液体流动、蒸汽或粉尘扩散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。

6.2 Environmental precautions

环境保护措施

Protect the environment from leakage.

收容泄漏物，避免污染环境。

6.3 Methods and materials for containment and cleaning up

泄露化学品的收集、清除方法及所使用的处置材料

Small leakage: collect the leaking liquid in airtight container if possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place.

小量泄露：尽可能将泄露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。

Massive leakage: construction of seawall or excavation of the shelter. Seal the drain. Cover with foam to inhibit evaporation. Transfer to tank truck or special collector by explosion-proof pump, and recycle or transport to waste disposal site for disposal.

大量泄露：构建围堤或挖坑收容。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。

SECTION 7: HANDLING AND STORAGE

第七部分 操作处置与储存

7.1 Precautions for safe handling

安全操作的注意事项

Operators should receive special training and strictly abide by the operating procedures.

操作人员应经过专门培训，严格遵守操作规程。

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Operational disposal shall be carried out in a place with local ventilation or full ventilation ventilation facilities.

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。

Avoid eye to contact, avoid inhalation of steam.

避免眼的接触，避免吸入蒸汽。

See section 8 for individual protective measures.

个体防护措施参见第 8 部分。

Keep away from fire and heat. No smoking in the workplace.

远离火种、热源，工作场所严禁吸烟。

Use explosion-proof ventilation systems and equipment.

使用防爆型的通风系统和设备。

If canning is required, the flow rate should be controlled and a grounding device should be installed to prevent the accumulation of static electricity.

如需罐装，应控制流速，且有接地装置，防止静电积聚。

Avoid contact with forbidden ligands such as oxidants (see part 10 for forbidden ligands).

避免与氧化剂等禁配物接触（禁配物参见第 10 部分）。

Handling should be light loading and unloading to prevent damage to packaging and containers.

搬运时要轻装轻卸，防止包装及容器损坏。

An empty container may contain harmful residue.

倒空的容器可能残留有害物。

Wash your hands after use and do not eat or drink in the workplace.

使用后洗手，禁止在工作场所进饮食。

Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment.

配备相应品种和数量的消防器材及泄漏应急处理设备。

7.2

Conditions for safe storage, including any incompatibilities

安全储存的条件，包括任何不兼容性

Store in cool and ventilated storeroom;

储存于阴凉、通风的库房；

Storage temperature should not exceed 37°C;

库温不宜超过 37°C；

It should be stored separately with oxidants and food chemicals, and mixed storage should be avoided by all means (see part 10 for prohibited compounds).

应与氧化剂、食品化学品分开存放，切忌混储（禁配物参见第 10 部分）；

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Keep container sealed;
保持容器密封;

Keep away from fire and heat;
远离火种、热源;

Lightning protection facilities must be installed in the warehouse;
库房必须安装避雷设施;

The exhaust system shall be equipped with grounding device to conduct and remove static electricity;

排风系统应设有导除静电的接地装置;

Adopt explosion-proof lighting and ventilation setting;
采用防爆型照明、通风设置;

Prohibit the use of equipment and tools that can easily generate sparks;
禁止使用易产生火花的设备和工具;

The storage area shall be equipped with emergency treatment for leakage and appropriate storage materials.

储区应具备泄露应急处理和合适的收容材料。

7.3 Storage conditions 存储条件

Keep container airtight. Store in a cool, dark place.
保持容器密闭。存放于阴凉、阴暗处。

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 第八部分 接触控制和个体防护

8.1 Occupational exposure limit 职业接触限值

The name of the component 组分名称	CAS	The standard source 标准来源	Limit 限值	Note 备注
Hypochlorous acid 次氯酸	7790-92-3	GBZ2.1-2007	MAC	-
			PC-TWA	
			PC-STEL	

8.2 Biological limit 生物限值

No data
无资料

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- 8.3 Monitoring method**
 监测方法
 GBZ/T 160.1 ~ GBZ/T 160.81-2004 determination of toxic substances in workplace air (series of standards), EN 14042 guidelines for procedures for assessing exposure to chemical or biological agents in workplace air.
 GBZ/T 160.1 ~ GBZ/T 160.81-2004 工作场所空气有毒物质测定（系列标准），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。
- 8.4 Engineering control**
 工程控制
 The workplace is recommended to be separated from other workplaces.
 作业场所建议与其它作业场所分开。
 Closed operation to prevent leakage.
 密闭操作，防止泄漏。
 Enhance ventilation.
 加强通风。
 Set up automatic alarm device and emergency ventilation facilities.
 设置自动报警装置和事故通风设施。
 Emergency evacuation channels and necessary evacuation areas shall be set up.
 设置应急撤离通道和必要的泻险区。
 Red area warning lines, warning signs and warning instructions in Chinese shall be set up, and a communication alarm system shall be set up.
 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。
- 8.5 Personal protective equipment**
 个体防护装备
 Respiratory protection: when the concentration in the air exceeds the standard, wear a filter gas mask (half mask). Emergency rescue or evacuation, should wear 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。
 Hand protection: wear rubber oil resistant gloves.
 手防护：戴橡胶耐油手套。
 Eye protection: wear chemical safety protection eyes.
 眼睛防护：戴化学安全防护眼睛。
 Skin and body protection: wear protective overalls.
 皮肤和身体防护：穿防毒物渗透工作服。

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

第九部分 理化特性

9.1	Information on basic physical and chemical properties 基本的理化特性信息	
	a, appearance 外观	Transparent liquid 透明液体
	b, color 颜色	Colorless 无色
	c, odor 气味	Slight taste of chlorine 有轻微氯味道
	d, pH	No data available 无可用数据
	e, Melting point/freezing point:熔点或凝固点	No data available 无可用数据
	f, Initial boiling point / boiling range:初沸点或沸程	No data available 无可用数据
	g, Flash point 闪点	No data available 无可用数据
	h, Density 密度	No data available 无可用数据
	i, Oxidising properties 氧化特性	No data available 无可用数据
	j, Vapour pressure 气压	No data available 无可用数据
	k, Upper/lower limit of explosion 爆炸上限/下限	No data available 无可用数据
	l, solubility in water 水溶性	No data available 无可用数据
	m, Partition coefficient n-octanol/water 正丁醇/水分配系数	No data available 无可用数据
	n, Viscosity 黏度 (mPa.s)	No data available 无可用数据

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o, Vapour density
 蒸汽密度 (g/m³)

No data available
 无可用数据

p, Ignition temperature
 燃点温度 (°C)

No data available
 无可用数据

9.2 Other safety information
 其他安全信息

No data available
 无可用数据

SECTION 10: STABILITY AND REACTIVITY

第十部分 稳定性和反应活性

10.1 Chemical Stability
 化学稳定性

The product is stable when stored and used at normal ambient temperature.
 正常环境温度下储存和使用, 本品稳定。

10.2 Possibility of hazardous reactions
 可能的危险反应

No data available
 无数据资料

10.3 Conditions to avoid
 应避免的条件

Electrostatic discharge, heat, moisture, etc.
 静电放电、热、潮湿等。

10.4 Incompatible materials
 禁配物

No data available
 无数据资料

10.5 Hazardous decomposition products
 危险的分解产物

No data available
 无数据资料

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SECTION 11: TOXICOLOGICAL INFORMATION**第十一部分 毒理学信息**
11.1 Information on toxicological effects
 毒理学影响的信息

Refer to below information 参考以下信息

Acute toxicity 急性毒性	Through the mouth 经口	No data available 无数据资料
	The suction 吸入	No data available 无数据资料
	percutaneous 经皮	No data available 无数据资料
Skin corrosion/irritation 皮肤腐蚀/刺激	No data available 无数据资料	
Serious eye damage/eye irritation 严重眼睛损伤/眼刺激	No data available 无数据资料	
Respiratory or skin sensitization 呼吸或皮肤过敏	No data available 无数据资料	
Germ cell mutagenicity 生殖细胞致突变性	No data available 无数据资料	
Carcinogenicity 致癌性	No data available 无数据资料	
Reproductive toxicity 生殖毒性	No data available 无数据资料	
Specific target organ toxicity - single exposure (特异性靶器官系统毒性 (一次接触))	No data available 无数据资料	
Specific target organ toxicity - repeated exposure (特异性靶器官系统毒性 (反复接触))	No data available 无数据资料	
Aspiration hazard 吸入危害	No data available 无数据资料	

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SECTION 12: ECOLOGICAL INFORMATION

第十二部分 生态学信息

12.1	Toxicity: 生态毒性	Acute toxicity test of fish: no data available. 鱼类急性毒性试验: 无资料。 Daphnia acute activity inhibition test: no data available. 溞类急性活动抑制试验: 无资料。 Algal growth inhibition test: no data available. 藻类生长抑制试验: 无资料。 Toxicity to microorganisms: no data available. 对微生物的毒性: 无资料。
12.2	Persistence and degradability: 持久性和降解性	No data available 无数据资料
12.3	Bio biodegradability 生物蓄积性	No data available 无数据资料
12.4	Mobility in soil: 土壤中的可迁移性	No data available 无数据资料
12.5	Results of PBT and vPvB assessment: PBT 和 vPvB 物质评估结果	No data available 无数据资料
12.6	Other adverse effects: 其他有害作用	No data available 无数据资料

SECTION 13: WASTE TREATMENT METHODS

第十三部分 废弃物处置方法

Waste chemicals: 废弃化学品:	Recycle where possible. 尽可能回收利用。 If it can't be recycled, incinerate it. 如果不能回收利用, 采用焚烧方法进行处置。 Do not dispose of the product by discharging into the sewer. 不得采用排放到下水道的方式废弃处置本品。 Return the container to the manufacturer or dispose of it in accordance with national and local regulations. 将容器返还生产商或按照国家 and 地方法规处置。
Packaging container: 包装容器:	Refer to national and local regulations before disposal. 废弃处置前应参阅国家和地方有关法规。
Discard notes: 废弃注意事项:	See part 8 for safety precautions for handling personnel. 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**第十四部分 运输信息**

14.1	UN Number UN 编号	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IATA-DGR 国际空运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.2	UN proper shipping name UN 运输名称	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IATA-DGR:国际空运危规	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.3	Transport hazard class(es): UN 运输危险等级	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.4	Packaging group 包装类别	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)

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IATA-DGR 国际空运危规: Non-dangerous goods (for reference only, please verify)
 非危险货物 (仅供参考, 请核实)

14.5 Environmental hazards 环境危害

Marine pollutants (yes/no) no
 海洋污染物 (是/否) 否

14.6 Special precautions for user 特殊防范措施

The transport vehicle shall be equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment.

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。

The exhaust pipe of the vehicle carrying the item must be equipped with fire resistance device.
 严禁与氧化剂、食用化学品等混装混运。

There should be grounding chain when the tank (tank) car is used for transportation, and a hole partition can be set in the tank to reduce the static electricity generated by the shock.使用槽(罐)车运输时应有接地链, 槽内可设孔隔板以减少震荡产生静电。

Do not use the machinery equipment and tools which are easy to produce spark loading and unloading.

禁止使用易产生火花的机械设备和工具装卸。

It is best to ship early and late in summer.

夏季最好早晚运输。

During transportation, we should prevent exposure to the sun, rain and high temperature.

运输途中应防暴晒、雨淋, 防高温。

When stopping over, stay away from fire, heat source and high temperature area.

中途停留时应远离火种、热源、高温区。

Road transport should follow the prescribed route, do not stay in residential areas and densely populated areas.

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。

It is forbidden to slip away during railway transportation.

铁路运输时要禁止溜放。

It is strictly prohibited to transport in bulk by wooden or cement vessels.

严禁用木船、水泥船散装运输。

Dangerous signs and notices shall be posted on the means of transport according to the relevant transport requirements.

运输工具上应根据相关运输要求张贴危险标志、公告。

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SECTION 15: REGULATION INFORMATION

第十五部分 法规信息

- 15.1 Safety, health and environmental regulations/legislation specific the substance or mixture
专门对此物质或混合物的安全、健康和环境的规章/法规
- Component Hypochlorous acid CAS: 7790-92-3
组分 Hypochlorous acid CAS: 7790-92-3
- Law of the People's Republic of China on prevention of occupational diseases:
中华人民共和国职业病防治法:
Classification catalogue of occupational-disease-inductive factors (2015) : not included
职业病危害因素分类目录 (2015): 未列入
- Safety management of hazardous chemicals:
危险化学品安全管理条例:
List of hazardous chemicals (2015) : not included
危险品化学品目录 (2015): 未列入
Hazardous chemicals (2017) : not included
易制爆危险品化学品目录 (2017): 未列入
- List of hazardous chemicals under supervision:
重点监管的危险化学品名录:
List of hazardous chemicals under supervision:
首批和第二批重点监管的危险化学品名录: 未列入
- Environmental management registration law of hazardous chemicals (trial)
危险化学品环境管理登记法 (试行)
List of hazardous chemicals for key environmental management: not included
重点环境管理危险化学品目录: 未列入
- Regulations on the administration of narcotic drugs and psychotropic drugs:
麻醉药品和精神药品管理条例:
Catalogue of narcotic drugs: not included
麻醉药品品种目录: 未列入
List of psychotropic drugs: not included
精神药品品种目录: 未列入
- New environmental management measures for chemical substances:
新化学物质环境管理办法:
List of existing chemical substances in China (2013) : not included
中国现有化学物质名录 (2013): 未列入

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SECTION 16: OTHER INFORMATION
第十六部分 其他信息

The information contained in this safety data sheet is based on the present state of knowledge and current legislation.

Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use.

This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

本化学品安全说明 (SDS) 包含的信息是基于知识的现状和当前的立法。

因为这些信息可能被应用到我们无法控制的条件下, 对于这种我们不熟悉的情况, 请提供妥善的建议, 可能后续的安全数据表会参考这些建议修改, 但是对应与这种无法控制的条件使用本品有可能产生的后果, 我们不承担任何责任。

本化学品安全说明信息是基于实际情况和最终使用目的考虑的。

本化学品安全说明数据只是对健康, 安全和环境影响的一个指南, 不应被解释为技术性能或特定功能的保证书。

化学品安全说明书

(瑞蒙德次氯酸消毒液)

MSDS

(Raymond Hypochlorous Acid Disinfectant)

MSDS Report NO : **WP-19102537-HJ-01C2-E**



安全技术说明书

MSDS

报告编号 Report No.	WP-20032381-HJ-01C2-E
品名 Sample Name	瑞蒙德™次氯酸消毒液 Raymond Hypochlorous acid disinfectant
委托单位 Client	瑞蒙德（武汉）有限责任公司 Raymond Thermal (Wuhan) Co., Ltd.



Jiangsu Micro Spectrum Detection Technology Co., Ltd.

安全技术说明书

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Applicant 申请人 : 瑞蒙德 (武汉) 有限责任公司
 Raymond Thermal (Wuhan) Co., Ltd.

Manufacturer 制造商 : 瑞蒙德 (武汉) 有限责任公司
 Raymond Thermal (Wuhan) Co., Ltd.

Product Name 产品名称 : Raymond Hypochlorous acid disinfectant
 瑞蒙德™次氯酸消毒液

Model 型号 : /

Trade 商标 : Raymond
 瑞蒙德™

This report is limited to the above applicant company and the product model only.

本报告仅限于以上所述的申请公司及对应的产品和型号

This Chemical Safety Technical Specification (SDS) only meets the local regulatory requirements and standards of the applicable regulation and may not meet the regulatory requirements of other countries. 本技术说明书仅证明本说明书依据相关的法律法规进行编制，并不证明足以满足其他国家或地区的要求。

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(according to GHS Rev.3 and European Regulation No.1272/2008, No.1907/2006 and its amendments)

(根据 GHS Rev.3 和欧洲条例第 1272/2008 号、第 1907/2006 号及其修正案)

SECTION 1: IDENTIFICATION OF PRODUCT AND SUPPLIER**第一部分 化学品及企业标识**

- 1.1 Product Identifiers 产品标识
 Product Name: Raymond Hypochlorous acid disinfectant
 产品名称 瑞蒙德™次氯酸消毒液
 Model: /
 型号 /
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 有关的确定了的物质或混合物的用途和建议不适合的用途
 Identified uses: /
 标识的用途 /
 Export to: /
 出口国别 /
- 1.3 Details of the supplier of the safety data sheet
 化学品/材料生产商详情
 Manufacturer: 瑞蒙德(武汉)有限责任公司
 制造商 Raymond Thermal (Wuhan) Co., Ltd.
 Address: 15002708586 ZIP Code: /
 地址 /
 TEL: 邮政区号
 电话 /
 E-Mail: 71193825@qq.com
 电邮 /
 Emergency telephone number:
 应急联系电话
 Weekday: 15002708586
 工作日 /
 Night& Holiday: 15002708586
 夜间及节假日 /

SECTION 2: HAZARDS IDENTIFICATION**第二部分 危险性鉴别**

- 2.1 GHS Risk Categories
 GHS 风险类别
 Non-hazardous classification
 无危害分类
- 2.2 GHS Label elements including precautionary statements
 GHS 标签要素, 包括防范说明:
 Pictograms: No danger pictograph
 象形图 无危险象形图

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Signal Word:	No warning word
警示词	无警示词
Risk description:	
危险性说明	
Precaution	No
预防措施	无
Accident response	No
事故响应	无
Safe storage	No
安全储存	无
Disposal	No
废弃处置	无
Health hazards	No
健康危险	无
Environmental hazard	No
环境危害	无
Physical and chemical hazards	物理和化学危险
No known information	
无已知资料。	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

第三部分 成分/组分信息

- 3.1 Substance or mixture
物质或混合物的定义
Mixture
混合物
- 3.2 Information about the chemical nature of product
关于产品化学成分的信息

Common chemical name /general name 通用化学名称或通用名称	CAS number CAS 编号	EC Number EC 编号	Concentration/Concentration range 浓度或浓度范围
Hypochlorous acid 次氯酸	7790-92-3	231-791-2	0.015%
Water 水	7732-18-5	232-232-5	99.985%

SECTION 4: FIRST AID MEASURES

第四部分 首要的急救措施

- 4.1 Description of first aid measures
首要的急救措施描述

Eye contact:
眼部接触

Separate eyelids and rinse with running water or normal saline. Seek medical attention immediately.
分开眼睑，用流动清水或生理盐水冲洗。立即就医。

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Skin Contact:	If you feel unwell, seek medical advice.
皮肤接触	如有不适感, 就医。
Inhalation:	If inhaled, remove victim to fresh air.
吸入	如果吸入, 请将患者移到新鲜空气处。
Ingestion:	Gargle, do not induce vomiting. Seek medical attention immediately.
食入	漱口, 禁止催吐。立即就医。

- 4.2 Advice to protect the rescuer
对保护施救者的忠告
Move the patient to a safe place. Consult your doctor. Show the chemical safety instruction to the doctor on the spot.
将患者转移到安全的场所。咨询医生。出示此化学品安全技术说明书给到现场的医生看。
- 4.3 Indication of any immediate medical attention and special treatment needed
及时的医疗处理和所需的特殊处理的说明或指示
No data available
无数据资料

SECTION 5: FIRE-FIGHTING MEASURES

第五部分 首要的消防措施

- 5.1 Extinguishing Media
灭火介质
Use water mist, dry powder, foam or carbon dioxide extinguishing agent.
用水雾、干粉、泡沫或二氧化碳灭火剂灭火。
Avoid using direct running water, which can cause a splash of flammable liquid and spread the fire.
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。
- 5.2 Precautions and protective measures against fire
灭火的注意事项及保护措施
Carbon oxides, Nitrogen oxides .
碳氧化物, 氮氧化物。
Fire fighters are required to wear air breathing apparatus and full body fire fighting clothing to fight the fire upwind.
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。
Remove containers from the fire as much as possible into the open.
尽可能将容器从火场移至空旷处。
Containers in the fire must be evacuated immediately if they have become discolored or sound from the safety relief device.
处在火场中的容器若已变色或从安全泄压装置中发出声音, 必须马上撤离。
Isolate the scene of the accident and prohibit the entry of irrelevant personnel.
隔离事故现场, 禁止无关人员进入。
Take in and treat fire water to prevent pollution.
收容和处理消防水, 防止污染环境。

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SECTION 6: ACCIDENTAL RELEASE MEASURES**第六部分 泄露应急处理**

- 6.1 Personal precautions protective equipment and emergency procedures
 作业人员个人防护措施、防护装备和应急处理程序
 Emergency personnel are advised to wear breathing apparatus, anti-static clothing and rubber oil-resistant gloves.
 建议应急处理人员戴携气式呼吸器，穿防静电服，戴橡胶耐油手套；
 Do not touch or cross the spill;
 禁止接触或跨越泄露物；
 All equipment used in the operation shall be connected to the ground;
 作业时使用的所有设备应接地；
 As far as possible to cut off the source of leakage;
 尽可能切断泄露源；
 Eliminate all ignition sources;
 消除所有点火源；
 According to the influence area of liquid flow, steam or dust diffusion, the warning area is defined, and the irrelevant personnel are evacuated from the crosswind and upwind to the safe area.
 根据液体流动、蒸汽或粉尘扩散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。
- 6.2 Environmental precautions
 环境保护措施
 Protect the environment from leakage.
 收容泄漏物，避免污染环境。
- 6.3 Methods and materials for containment and cleaning up
 泄露化学品的收集、清除方法及所使用的处置材料
 Small leakage: collect the leaking liquid in airtight container if possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place.
 小量泄露：尽可能将泄露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。
 Massive leakage: construction of seawall or excavation of the shelter. Seal the drain. Cover with foam to inhibit evaporation. Transfer to tank truck or special collector by explosion-proof pump, and recycle or transport to waste disposal site for disposal.
 大量泄露：构建围堤或挖坑收容。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。

SECTION 7: HANDLING AND STORAGE**第七部分 操作处置与储存**

- 7.1 Precautions for safe handling
 安全操作的注意事项
 Operators should receive special training and strictly abide by the operating procedures.
 操作人员应经过专门培训，严格遵守操作规程。

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Operational disposal shall be carried out in a place with local ventilation or full ventilation ventilation facilities.

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。

Avoid eye to contact, avoid inhalation of steam.

避免眼的接触，避免吸入蒸汽。

See section 8 for individual protective measures.

个体防护措施参见第 8 部分。

Keep away from fire and heat. No smoking in the workplace.

远离火种、热源，工作场所严禁吸烟。

Use explosion-proof ventilation systems and equipment.

使用防爆型的通风系统和设备。

If canning is required, the flow rate should be controlled and a grounding device should be installed to prevent the accumulation of static electricity.

如需罐装，应控制流速，且有接地装置，防止静电积聚。

Avoid contact with forbidden ligands such as oxidants (see part 10 for forbidden ligands).

避免与氧化剂等禁配物接触（禁配物参见第 10 部分）。

Handling should be light loading and unloading to prevent damage to packaging and containers.

搬运时要轻装轻卸，防止包装及容器损坏。

An empty container may contain harmful residue.

倒空的容器可能残留有害物。

Wash your hands after use and do not eat or drink in the workplace.

使用后洗手，禁止在工作场所进饮食。

Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment.

配备相应品种和数量的消防器材及泄漏应急处理设备。

7.2 Conditions for safe storage, including any incompatibilities

安全储存的条件，包括任何不兼容性

Store in cool and ventilated storeroom;

储存于阴凉、通风的库房；

Storage temperature should not exceed 37°C;

库温不宜超过 37°C；

It should be stored separately with oxidants and food chemicals, and mixed storage should be avoided by all means (see part 10 for prohibited compounds).

应与氧化剂、食品化学品分开存放，切忌混储（禁配物参见第 10 部分）；

Keep container sealed;

保持容器密封；

Keep away from fire and heat;

远离火种、热源；

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Lightning protection facilities must be installed in the warehouse;

库房必须安装避雷设施;

The exhaust system shall be equipped with grounding device to conduct and remove static electricity;

排风系统应设有导除静电的接地装置;

Adopt explosion-proof lighting and ventilation setting;

采用防爆型照明、通风设置;

Prohibit the use of equipment and tools that can easily generate sparks;

禁止使用易产生火花的设备和工具;

The storage area shall be equipped with emergency treatment for leakage and appropriate storage materials.

储区应具备泄露应急处理和合适的收容材料。

Storage conditions

7.3

存储条件

Keep container airtight. Store in a cool, dark place.

保持容器密闭。存放于阴凉、阴暗处。

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

第八部分 接触控制和个体防护

8.1 Occupational exposure limit

职业接触限值

The name of the component 组分名称	CAS	The standard source 标准来源	Limit 限值	Note 备注
Hypochlorous acid 次氯酸	7790-92-3	GBZ2.1-2007	MAC	-
			PC-TWA	
			PC-STEL	

8.2 Biological limit

生物限值

No data

无资料

8.3 Monitoring method

监测方法

GBZ/T 160.1 ~ GBZ/T 160.81-2004 determination of toxic substances in workplace air (series of standards), EN 14042 guidelines for procedures for assessing exposure to chemical or biological agents in workplace air.

GBZ/T 160.1 ~ GBZ/T 160.81-2004 工作场所空气有毒物质测定 (系列标准), 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。

8.4 Engineering control

工程控制

The workplace is recommended to be separated from other workplaces.

作业场所建议与其它作业场所分开。

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Closed operation to prevent leakage.

密闭操作，防止泄漏。

Enhance ventilation.

加强通风。

Set up automatic alarm device and emergency ventilation facilities.

设置自动报警装置和事故通风设施。

Emergency evacuation channels and necessary evacuation areas shall be set up.

设置应急撤离通道和必要的泻险区。

Red area warning lines, warning signs and warning instructions in Chinese shall be set up, and a communication alarm system shall be set up.

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。

8.5

Personal protective equipment

个人防护装备

Respiratory protection: when the concentration in the air exceeds the standard, wear a filter gas mask (half mask). Emergency rescue or evacuation, should wear 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。

Hand protection: wear rubber oil resistant gloves.

手防护：戴橡胶耐油手套。

Eye protection: wear chemical safety protection eyes.

眼睛防护：戴化学安全防护眼睛。

Skin and body protection: wear protective overalls.

皮肤和身体防护：穿防毒物渗透工作服。

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

第九部分 理化特性

9.1 Information on basic physical and chemical properties

基本的理化特性信息

a, appearance 外观

Transparent liquid

透明液体

b, color 颜色

Colorless

无色

c, odor 气味

Slight taste of chlorine

有轻微氯味道

d, pH

No data available

无可用数据

e, Melting point/freezing point: 熔点或凝固点

No data available

无可用数据

f, Initial boiling point / boiling range: 初沸点或沸程

No data available

无可用数据

g, Flash point

No data available

闪点

无可用数据

h, Density

No data available

密度

无可用数据

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i, Oxidising properties 氧化特性	No data available 无可数据
j, Vapour pressure 气压	No data available 无可数据
k, Upper/lower limit of explosion 爆炸上限/下限	No data available 无可数据
l, solubility in water 水溶性	No data available 无可数据
m, Partition coefficient n-octanol/water 正丁醇/水分配系数	No data available 无可数据
n, Viscosity 黏度 (mPa.s)	No data available 无可数据
o, Vapour density 蒸汽密度 (g/m ³)	No data available 无可数据
p, Ignition temperature 燃点温度 (°C)	No data available 无可数据

9.2 Other safety information
其他安全信息
No data available
无可数据

SECTION 10: STABILITY AND REACTIVITY

第十部分 稳定性和反应活性

- 10.1 Chemical Stability
化学稳定性
The product is stable when stored and used at normal ambient temperature.
正常环境温度下储存和使用, 本品稳定。
- 10.2 Possibility of hazardous reactions
可能的危险反应
No data available
无数据资料
- 10.3 Conditions to avoid
应避免的条件
Electrostatic discharge, heat, moisture, etc.
静电放电、热、潮湿等。
- 10.4 Incompatible materials
禁配物
No data available
无数据资料
- 10.5 Hazardous decomposition products
危险的分解产物
No data available
无数据资料

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SECTION 11: TOXICOLOGICAL INFORMATION**第十一部分 毒理学信息**

11.1	Information on toxicological effects 毒理学影响的信息 Refer to below information 参考以下信息		
	Acute toxicity 急性毒性	Through the mouth 经口 The suction 吸入 percutaneous 经皮	No data available 无数据资料 No data available 无数据资料 No data available 无数据资料
	Skin corrosion/irritation 皮肤腐蚀/刺激	No data available 无数据资料	
	Serious eye damage/eye irritation 严重眼睛损伤/眼刺激	No data available 无数据资料	
	Respiratory or skin sensitization 呼吸或皮肤过敏	No data available 无数据资料	
	Germ cell mutagenicity 生殖细胞致突变性	No data available 无数据资料	
	Carcinogenicity 致癌性	No data available 无数据资料	
	Reproductive toxicity 生殖毒性	No data available 无数据资料	
	Specific target organ toxicity - single exposure (特异性靶器官系统毒性 (一次接触))	No data available 无数据资料	
	Specific target organ toxicity - repeated exposure (特异性靶器官系统毒性 (反复接触))	No data available 无数据资料	
	Aspiration hazard 吸入危害	No data available 无数据资料	

SECTION 12: ECOLOGICAL INFORMATION**第十二部分 生态学信息**

12.1	Toxicity: 生态毒性	Acute toxicity test of fish: no data available. 鱼类急性毒性试验: 无资料。 Daphnia acute activity inhibition test: no data available. 溞类急性活动抑制试验: 无资料。 Algal growth inhibition test: no data available. 藻类生长抑制试验: 无资料。 Toxicity to microorganisms: no data available. 对微生物的毒性: 无资料。
12.2	Persistence and degradability: 持久性和降解性	No data available 无数据资料

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12.3	Bio biodegradability 生物蓄积性	No data available 无数据资料
12.4	Mobility in soil: 土壤中的可迁移性	No data available 无数据资料
12.5	Results of PBT and vPvB assessment: PBT 和 vPvB 物质评估结果	No data available 无数据资料
12.6	Other adverse effects: 其他有害作用	No data available 无数据资料

SECTION 13: WASTE TREATMENT METHODS**第十三部分 废弃物处置方法**

	Recycle where possible. 尽可能回收利用。
Waste chemicals: 废弃化学品:	If it can't be recycled, incinerate it. 如果不能回收利用, 采用焚烧方法进行处置。 Do not dispose of the product by discharging into the sewer. 不得采用排放到下水道的方式废弃处置本品。
Packaging container: 包装容器:	Return the container to the manufacturer or dispose of it in accordance with national and local regulations. 将容器返还生产商或按照国家 and 地方法规处置。
Discard notes: 废弃注意事项:	Refer to national and local regulations before disposal. 废弃处置前应参阅国家和地方有关法规。 See part 8 for safety precautions for handling personnel. 处置人员的安全防范措施参见第 8 部分。

SECTION 14: TRANSPORT INFORMATION**第十四部分 运输信息**

14.1	UN Number UN 编号	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IATA-DGR 国际空运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.2	UN proper shipping name UN 运输名称	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IATA-DGR:国际空运危规	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.3	Transport hazard class(es): UN 运输危险等级	

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	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.4	Packaging group 包装类别	
	ADR/RID 欧洲陆运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IMDG 国际海运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
	IATA-DGR 国际空运危规:	Non-dangerous goods (for reference only, please verify) 非危险货物 (仅供参考, 请核实)
14.5	Environmental hazards 环境危害	
	Marine pollutants (yes/no)	no
	海洋污染物 (是/否)	否
14.6	Special precautions for user 特殊防范措施	
	<p>The transport vehicle shall be equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. 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。</p> <p>The exhaust pipe of the vehicle carrying the item must be equipped with fire resistance device. 严禁与氧化剂、食用化学品等混装混运。</p> <p>There should be grounding chain when the tank (tank) car is used for transportation, and a hole partition can be set in the tank to reduce the static electricity generated by the shock. 使用槽(罐)车运输时应有接地链, 槽内可设孔隔板以减少震荡产生静电。</p> <p>Do not use the machinery equipment and tools which are easy to produce spark loading and unloading. 禁止使用易产生火花的机械设备和工具装卸。</p> <p>It is best to ship early and late in summer. 夏季最好早晚运输。</p> <p>During transportation, we should prevent exposure to the sun, rain and high temperature. 运输途中应防暴晒、雨淋, 防高温。</p> <p>When stopping over, stay away from fire, heat source and high temperature area. 中途停留时应远离火种、热源、高温区。</p> <p>Road transport should follow the prescribed route, do not stay in residential areas and densely populated areas. 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。</p> <p>It is forbidden to slip away during railway transportation. 铁路运输时要禁止溜放。</p>	

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It is strictly prohibited to transport in bulk by wooden or cement vessels.

严禁用木船、水泥船散装运输。

Dangerous signs and notices shall be posted on the means of transport according to the relevant transport requirements.

运输工具上应根据相关运输要求张贴危险标志、公告。

SECTION 15: REGULATION INFORMATION

第十五部分 法规信息

15.1

Safety, health and environmental regulations/legislation specific the substance or mixture

专门对此物质或混合物的安全、健康和环境的规章/法规

Component Hypochlorous acid CAS: 7790-92-3

组分 Hypochlorous acid CAS: 7790-92-3

Law of the People's Republic of China on prevention of occupational diseases:

中华人民共和国职业病防治法:

Classification catalogue of occupational-disease-inductive factors (2015) : not included

职业病危害因素分类目录 (2015): 未列入

Safety management of hazardous chemicals:

危险化学品安全管理条例:

List of hazardous chemicals (2015) : not included

危险品化学品目录 (2015): 未列入

Hazardous chemicals (2017) : not included

易制爆危险品化学品目录 (2017): 未列入

List of hazardous chemicals under supervision:

重点监管的危险化学品名录:

List of hazardous chemicals under supervision:

首批和第二批重点监管的危险化学品名录: 未列入

Environmental management registration law of hazardous chemicals (trial)

危险化学品环境管理登记法 (试行)

List of hazardous chemicals for key environmental management: not included

重点环境管理危险化学品目录: 未列入

Regulations on the administration of narcotic drugs and psychotropic drugs:

麻醉药品和精神药品管理条例:

Catalogue of narcotic drugs: not included

麻醉药品品种目录: 未列入

List of psychotropic drugs: not included

精神药品品种目录: 未列入

New environmental management measures for chemical substances:

新化学物质环境管理办法:

List of existing chemical substances in China (2013) : not included

中国现有化学物质名录 (2013): 未列入

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SECTION 16: OTHER INFORMATION**第十六部分 其他信息**

The information contained in this safety data sheet is based on the present state of knowledge and current legislation.

Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use.

This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

本化学品安全说明 (SDS) 包含的信息是基于知识的现状和当前的立法。

因为这些信息可能被应用到我们无法控制的条件下, 对于这种我们不熟悉的情况, 请提供妥善的建议, 可能后续的安全数据表会参考这些建议修改, 但是对应与这种无法控制的条件使用本品有可能产生的后果, 我们不承担任何责任。

本化学品安全说明信息是基于实际情况和最终使用目的考虑的。

本化学品安全说明数据只是对健康, 安全和环境影响的一个指南, 不应被解释为技术性能或特定功能的保证书。