

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X



化学品安全技术说明书

Material Safety Data Sheet

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修订日期：2019 年 8 月 28 日 Revision date: August 28, 2019	SDS 编号：ZPC027 SDS Number: ZPC027
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第 1 部分 化学品及企业标识

Section 1 Chemical Product and Company Identification

化学品中文名：三乙二醇
Product Chinese Name: 三乙二醇

化学品英文名：Triethylene glycol
Product English name: Triethylene glycol

企业名称：浙江石油化工有限公司公司
Company Name: Zhejiang Petroleum and Chemical Co., Ltd.

企业地址：浙江省舟山市定海区临城街道翁山路 555 号大宗商品交易中心 5201 室（自贸试验区内）
Company address: Room 5201, Bulk Commodity Exchange Center, No. 555 Wengshan Road, Lincheng Street, Dinghai District, Zhoushan City, Zhejiang Province (within Pilot Free Trade Zone)

邮 编：316000
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企业应急电话：0580-8265777（24h）
Emergency telephone number: 0580-8265777（24h）

产品推荐及限制用途：三乙二醇可作为芳烃抽提的溶剂，橡胶、硝酸纤维的溶剂以及柴油添加剂、火箭燃料。此外在医药、涂料、纺织、印染、食品、造纸、化妆品、制革、照相、印刷、金属加工等行业中都有着广泛的用途。常用来做纺织助剂、溶剂、橡胶与树脂的增塑剂，润滑油粘度的改进剂以及重整液的芳烃抽提剂。

Recommended use and restriction on use: Triethylene glycol can be used as solvent for aromatics extraction,

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Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

solvent for rubber and nitrate fiber, diesel additive and rocket fuel. In addition, it is widely used in medicine, coating, textile, printing and dyeing, food, papermaking, cosmetics, leather making, photography, printing, metal processing and other industries. It is commonly used as textile auxiliary, solvents, plasticizer for rubber and resin, improver for lubricating oils viscosity and aromatic extractant for reforming liquid.

第 2 部分 危险性概述 Section2 Hazards Identification

紧急情况概述： 三乙二醇为无色、无臭、有甜味的粘稠 无色透明或微带黄色液体。大量饮用会刺激中枢神经,引起呕吐,疲倦,昏睡,呼吸困难,震颤,肾脏充血,脂肪肝,闭尿,肺炎而死,低毒类。

Hazard statement: Triethylene glycol is a colorless, odorless with sweet viscous, colorless transparent or yellowish liquid. Drinking in large amounts can stimulate the central nervous system, causing vomiting, fatigue, lethargy, dyspnea, tremor, kidney congestion, fatty liver, ischuria, death from pneumonia, low toxicity.

GHS 危险性类别： 无资料

GHS hazard category: No data

标签要素：

Label elements:

象形图：

Pictogram:



警示词： 警告

Signal word: Caution

危险性说明： 遇明火、高热可燃。

Hazard statement: It is flammable in case of open fire and high heat.

防范说明：

Precautionary statement:

预防措施：

Precautionary measures:

在得到专门指导后操作。在未了解所有安全措施之前，切勿操作。

Handle it after receiving special guidance. Do not operate until you know all safety precautions.

远离热源、火花、明火、热表面。使用不产生火花的工具作业。

Keep away from heat sources, spark, open flame and hot surface. Use non-sparking tools.

采取防止静电措施，容器和接收设备接地、连接。

Take anti-static precautions, ground and connect the vessel and receiving equipment.

使用防爆型电器、通风、照明及其他设备。

Use anti-explosion electrical appliance, ventilation equipment, lighting equipment and other devices.

保持容器密闭。

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Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

Keep the container tightly closed.

仅在室外或通风良好处操作。

Only operate outdoors or in well-ventilated places.

戴防护手套和防护眼镜。

Wear protective gloves and safety goggles.

空气中浓度超标时戴呼吸防护器具。

When the concentration in the air exceeds the limited level, please wear respiratory protection equipment.

作业场所不得进食、饮水、吸烟。

Eating, drinking or smoking is not allowed at the site.

操作后彻底清洗身体接触部位。污染的工作服不得带出工作场所。

Wash the body contact area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

事故响应：

Incident response:

食入：饮足量温水，催吐。洗胃，导泄。就医。

When ingestion: drink plenty of warm water and vomit. Gastric lavage and catharsis. Seek medical advice.

吸入：迅速脱离现场至空气新鲜处，安置休息并保暖。呼吸困难给输氧。严重者进行人工呼吸，立即就医。

In case of inhalation, leave the contaminated environment for places with fresh air, keep them relax and warm. If people have breathing difficulty, perform oxygen therapy. In serious cases, artificial respiration is performed and seek medical advice immediately.

眼睛接触：提起眼睑，用流动清水或生理盐水冲洗。就医

In case of eye exposure, lift the eyelid up, and rinse with running water or normal saline. Seek medical advice.

皮肤接触：脱去污染的衣着，用大量流动清水冲洗。

Skin contact: take off contaminated clothing and wash with large quantity of flowing clean water.

火灾时：使用雾状水、泡沫、干粉、二氧化碳、砂土灭火。

When there is a fire, use water spray, foam, dry powder, carbon dioxide and sand to extinguish the fire.

安全存储：

Safe storage:

储存于阴凉、通风的库房。

Store in a cool, ventilated warehouse.

远离火种、热源。

Keep away from fire and heat sources.

应与氧化剂、酸类分开存放，切忌混储。

Store separately from oxidants and acids, avoid mixed storage.

废弃处置：

Disposal:

收集，转移，回收或无害处理后废弃。

Collect, transfer, recycle or discard after harmless treatment.

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Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
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SDS No.: HG-00X

物理和化学危险：为无色、无臭、有甜味的粘稠 无色透明或微带黄色 液体，可与水以任何比例混溶，能降低水的冰点，有极大的吸湿性。本品可燃，对水生生物有毒作用，对眼和皮肤无刺激性。

Physical and chemical hazards: It is a colorless, odorless with sweet viscous, colorless transparent or yellowish liquid, it is miscible with water in all proportions which can depress the freezing point of water and has great hygroscopicity. It is flammable, toxic to aquatic organisms, and non-irritating to eyes and skin.

健康危害：

Health hazards:

对眼和皮肤无刺激性。无中毒病例报道。

No irritation to eyes and skin. No poisoning cases were reported.

环境危害：

Environmental hazard:

根据 GHS 标准，未被列为环境危害物质。

According to GHS, it is not classified as an environmentally hazardous substance.

第 3 部分 成分/组成信息 Section3 Composition/Information on Ingredients

组分 Component	浓度或浓度范围 Concentration or concentration range (质量分数, %) (Mass fraction, %)	CAS No. CAS No.
三乙二醇 Triethylene glycol	≥99	112-27-6

第 4 部分 急救措施 Section4 First Aid Measures

急救：

First aid:

吸入：迅速脱离现场至空气新鲜处。保持呼吸道通畅。如呼吸困难，给输氧。如呼吸停止，立即进行人工呼吸。就医

Inhalation: leave the contaminated environment for places with fresh air. Keep the airway unobstructed. If people have breathing difficulty, perform oxygen therapy. When breathing stops, conduct artificial respiration immediately. Seek medical advice.

皮肤接触：脱去污染的衣着，用大量流动清水冲洗

Skin contact: take off contaminated clothing and wash with large quantity of flowing clean water.

眼睛接触：分开眼睑，用流动清水或生理盐水冲洗。如有不适感，就医

In case of eye exposure: lift the eyelid up, and rinse with running water or normal saline. In case of any discomfort, seek medical advice.

食入：饮足量温水，催吐。洗胃，导泄。就医。

When ingestion: drink plenty of warm water and vomit. Gastric lavage and catharsis. Seek medical advice.

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

对保护施救者的忠告： 正常接触安全。

Advice for fire-fighters: Normal contact is safe.

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症。

Special tips for doctors: Perform targeted treatment based on the symptoms that appear. Note that symptoms may be delayed.

第 5 部分 消防措施 Section 5 Fire-Fighting Measures

灭火剂： 水、雾状水、抗溶性泡沫、干粉、二氧化碳、砂土

Extinguishing media: water, water spray, alcohol-resistant foam, dry powder, carbon dioxide and sand.

特别危险性：

Specific hazards:

遇明火、高热可燃

It is flammable in case of open fire and high heat.

灭火注意事项及防护措施：

Precautions and protective measures for fire fighting:

消防人员须佩戴防毒面具、穿全身消防服，在上风向灭火。

Firefighters must wear gas masks and full-body firefighting suits to put out a fire in the upwind direction.

尽可能将容器从火场移至空旷处。

Move the container from the fire scene to an open place as much as possible.

喷水保持火场容器冷却，直至灭火结束。

Keep the container cool by spraying water until the fire is over.

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。

If the container in the fire scene discolours or sound is generated from the safety relief device, immediately evacuate the scene.

用水喷射逸出液体，使其稀释成不燃性混合物，并用雾状水保护消防人员。

Spray the escaped liquid with water, dilute it into a non-combustible mixture, and protect firefighters with foggy water.

第 6 部分 泄漏应急处理 Section 6 Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序：

Personal precautions, protective equipment and emergency procedures:

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。

withdraw from the leakage area to safety places, isolate the place and restrict the access.

建议应急处理人员戴自吸过滤式防毒面具（全面罩），穿一般作业工作服。

It is recommended that emergency personnel wear self-contained breathing filter type gas mask (full mask) and appropriate working clothes.

尽可能切断泄漏源。

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

Cut off the source of leaks as much as possible.

消除所有点火源。
Eliminate all ignition sources.

根据液体流动和蒸汽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。
According to the area affected by liquid flow and vapor diffusion, a warning zone shall be delineated, and unrelated personnel shall be evacuated from the crosswind and upwind direction to the safe area.

用净化剂，湿土和湿沙来截止溢出物的流动并予以覆盖，让其反应至少 30 分钟。
Use purifying agent, wet soil and wet sand to stop and cover the overflow and let it react for at least 30 minutes.

将残余物冲洗液装罐，然后予以适当处置。用粘土、沙或其它适当的吸收料来吸收残余物。
Tank the residual flushing fluid and dispose of it properly. Absorb residues with clay, sand, or other appropriate absorbents.

环境保护措施： Environmental precautions:

用沙、泥土或其它适合的障碍物来防止扩散或进入排水道、阴沟或河流。使用合适的防扩散措施，以免污染环境。使受污染区域彻底通风。如民众或环境受其暴露或可能会受其暴露，需通知有关当局。用围堤围住溢漏水
Prevent from spreading or entering into drains, sewer or rivers by using sand, earth, or other appropriate barriers. Use appropriate non-proliferation measures to avoid polluting the environment. Ventilate contaminated area thoroughly. Notify the relevant authorities if any exposures to the general public or environment occurs or is likely to occur. Enclose spilled water with dikes

泄漏化学品的收容、清除方法及所使用的处置材料： Methods and materials for containment and cleaning up:

小量泄漏：用砂土、蛭石或其它惰性材料吸收。也可以用大量水冲洗，洗水稀释后放入废水系统。
Small spills: absorb with sand, vermiculite or other inert materials. It's also an option to wash with large quantity of water. Diluted washing water is discharged into the waste water system.

大量泄漏：构筑围堤或挖坑收容。用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。
Large spills: build dikes or dig pits for containment. Use pump to transfer spills to tank car or special collector, to recover it or dispose it at waste plant.

第 7 部分 操作处置与储存 Section 7 Handling and Storage

操作注意事项： Precautions for safe handling:

密闭操作，注意通风。操作人员必须经过专门培训，严格遵守操作规程。
Closed operation, providing ideal ventilation conditions. Handling personnel must undergo special training and strictly abide by handling procedures.

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，穿防毒物渗透工作服，戴防化学手套。
It is recommended that operators shall wear a self-priming filter gas mask (half mask), chemical safety glasses, anti-poison penetration work clothes and chemical resistant gloves.

远离火种、热源，工作场所严禁吸烟。

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

Handling personnel must undergo special training and strictly abide by handling procedures.

使用防爆型的通风系统和设备。

Use explosion-proof ventilation systems and equipment.

防止蒸气泄漏到工作场所空气中。

Prevent vapor leaking into workplace.

配备相应品种和数量的消防器材及泄漏应急处理设备。

Corresponding types and quantities of fire-fighting equipment and leakage emergency treatment equipment are available.

忌吸入或接触本品。

Do not inhale or touch this product.

只可在空气流通之处使用。搬运或使用后用水彻底清洗。

It can only be used where the air is well ventilated. Wash thoroughly with water after handling or use.

关于产品装卸，转运，储藏及储罐清洁的具体建议，请咨询产品供应商。

For specific suggestions on product handling, transshipment, storage and tank cleaning, please consult the product supplier.

储存注意事项：

Precautions for storage:

储罐必须保持清洁、干燥、无锈。保持容器密闭。必须存储于有围堤、空气流通，以及不受日晒、不接近明火和其它热源的地方。储罐的清洁，检查和维护属于专业操作，需执行严格的程序和预防措施。最高只能堆 3 个桶高。

Storage tanks must be kept clean, dry and rust-free. Keep the container tightly closed. It must be stored in a place with dikes, air circulation, free from sunlight, open fire and other heat sources. The cleaning, inspection and maintenance of storage tanks are professional operations, strict procedures and preventive measures should be implemented. It can only stack 3 barrels high at most.

第 8 部分 接触控制/个体防护

Section8 Exposure Controls/Personal Protection

职业接触限值：

Occupational exposure limits:

生物限值：

Biological limit:

监测方法：

Monitoring method:

工程控制：

Engineering control:

密闭操作，注意通风。

Closed operation, providing ideal ventilation conditions.

个体防护设备：

Personal protective equipment:

产品名称：工业用三乙二醇
 Product Identifier: Triethylene glycol for industrial use
 修订日期：2019 年 8 月 6 日
 Revision Date: August 6, 2019

SDS 编号：HG-00X
 SDS No.: HG-00X

呼吸系统防护：一般不需要特殊防护，高浓度接触时可佩戴自吸过滤式防毒面具（半面罩）。

Respiratory protection: Generally, special protection is not required. When exposed to high concentrations, it is recommended to wear a self-priming filter gas mask (half mask).

手 防 护：戴防化学品手套。

Hand protection: Wear chemical resistant gloves.

眼 睛 防 护：戴化学安全防护眼镜。

Eye protection: wear chemical safety glasses.

皮肤和身体防护：穿防毒物渗透工作服。

Skin and body protection: wear anti-poison penetration work clothes.

第 9 部分 理化特性

Section9 Physical and Chemical Properties

项目 Item	指标 Index	项目 Item	指标
外观与性状 Appearance and Odor	无色、无臭、开始味甜回味苦的粘稠液体，具有吸湿性。 A colorless, odorless, viscous liquid with a sweet beginning and a bitter aftertaste, and is hygroscopic.		
pH 值 pH value	无资料 No data available.	临界温度 (°C) Critical temperature (°C)	506.85
熔点 (°C) Melting point (°C)	-7 -7	临界压力 (MPa) Critical pressure (MPa):	3.3
沸点 (°C) Boiling point (°C)	285 285	自燃温度 (°C) Autoignition Temperature (°C)	无资料 No data available.
闪点 (°C) Flash point (°C)	165 165	分解温度 (°C) Decomposition temperature (°C):	无资料 No data available.
爆炸上限[% (体积分数)] Upper explosion limit[% (volume fraction)]	9.2	燃烧热 (kJ/mol) Heat of combustion (kJ/mol):	3563.4
爆炸下限[% (体积分数)] Lower explosion limit[% (volume fraction)]	0.89	蒸发速率[乙酸(正)丁酯以 1 计] Evaporation rate [n-butyl acetate=1]	无 No
饱和蒸气压 (kPa) Saturated vapor pressure (kPa):	0.0013 (20°C)	易燃性 (固体、气体) Inflammability(solid, gas)	不适用 not applicable
相对密度 (水以 1 计) Relative density (water=1):	1.1	黏度 (mPa·s) (25°C) Viscosity (mPa·s) (25°C)	49 49
相对蒸气密度 (空气以 1 计) Relative vapor density (air=1)	5.2	气味阈值 (mg/m ³) Odor threshold (mg/m ³)	无资料 No data available.
辛醇/水分配系数 (lg P) Partition coefficient of n-octanol/water (lg P)	无资料 No data available.		
溶解性 Solubility	可混溶于醇、苯，与水混溶，微溶于醚，不溶于石油醚。 It is miscible with alcohol and benzene, miscible with water, slightly soluble in ether and insoluble in petroleum ether.		

第 10 部分 稳定性和反应性

Section10 Stability and Reactivity

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
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SDS 编号：HG-00X
SDS No.: HG-00X

稳定性：
Stability:

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

危险反应：
Hazardous reactions:

避免接触的条件：
Conditions to avoid:

明火、高热等。
open fire, highheat, etc.

禁配物：
Contraindications:

强氧化剂、强酸、强碱。
strong oxidants, strong acid, strong base.

危险的分解产物：
Hazardous decomposition products:

二氧化碳 一氧化碳。
carbon dioxide carbon monoxide.

第 11 部分 毒理学信息 Section 11 Toxicological Information

急性毒性：
Acute toxicity:

急性毒性：大鼠经口 LD50：17000mg/kg；豚鼠经口 LD50：7.9mL/kg。
Acute toxicity: Rat oral LD50: 17000mg/kg; Guinea pig oral LD50: 7.9mL/kg。

皮肤刺激或腐蚀：无刺激性。
Skin irritation or corrosion: No irritation.

眼睛刺激或腐蚀：无刺激性。
Eye irritation or corrosion: No irritation.

呼吸或皮肤过敏：无影响。
Respiratory or skin irritation: No effect.

生殖细胞突变性：估计为非生殖毒物，在能使怀孕母体致毒量下，可引起轻微胎盘毒性。
Germ cell mutagenicity: It is estimated to be a non-reproductive toxicant, which can cause slight placental toxicity at a level that can cause the pregnant mother to be toxic.

致癌性：无资料。
Carcinogenicity: no data available.

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

生殖毒性：

Reproductive toxicity:

非发育毒物，对动物有胎儿毒性：被视为母体毒性的负效应。不会影响生育能力。

Non-developmental poison that has foetotoxic to animals: is regarded as a negative effect of maternal toxicity.
Will not affect fertility.

特异性靶器官系统毒性-一次接触：

Specific target organ toxicity- one-time exposure:

可能引起昏昏欲睡或眩晕，吸入蒸汽或云雾会刺激呼吸系统。

May cause drowsiness or dizziness. Inhalation of steam or cloud may irritate the respiratory system.

特异性靶器官系统毒性——反复接触：长期或重复接触会造成器官或器官伤害。

Specific target organ toxicity- repeated exposure: Prolonged or repeated exposure can cause organ or organ damage.

吸入危害：不被视为吸入性危害物质

Inhalation hazard: Not regarded as inhaled hazardous substances

第 12 部分 生态学信息[1] Section 12 Ecological Information[1]

生态毒性：对水体有轻微的危害。

Ecotoxicity: Slightly Hazard to water bodies.

持久性和降解性：容易生物降解

Persistence and degradability: readily biodegrade

生物富集或生物积累性：没有显著的生物极具潜力

Bioaccumulation: There is no significant biology with great potential.

土壤中的迁移性：

Mobility in soil:

在水中会溶解。如果本品进入土壤，因其中一个或多个组份具有流动性，所以可能会污染地下水。

It dissolves in water. If it enters the soil, because one or more of its components have mobility, it may contaminate groundwater.

第 13 部分 废弃处置 Section 13 Disposal Consideration

废弃化学品：

Waste chemicals:

应尽可能回收或循环使用。溢漏或清洗容器产生的废物应依照现行的条例，由获认可的废物收集商或承包商收集处置。应预先确定收集商或承包商的资格。拆卸所有包装物以便回收或作废物处置。切勿弃置于环境、排水沟或水道之内。不应让废弃物污染土壤或水。

Should be recovered or recycled as much as possible. Waste from spills or cleaning containers should be collected and disposed of by approved waste collectors or contractors in accordance with current regulations. The qualifications of the collector or contractor should be determined in advance. Disassemble all packaging for recycling or waste disposal. Do not dispose of it in the environment, drains or water courses. Wastes should not be

产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
Revision Date: August 6, 2019

SDS 编号：HG-00X
SDS No.: HG-00X

allowed to contaminate soil or water.

污染包装物:

Contaminated packaging:

依照目前在施行的条例的规定，并尽可能应该由获认可的废物收集商或承包商予以处置。

In accordance with the provisions of the regulations currently in force, the disposal should be carried out by an approved waste collector or contractor as far as possible.

废弃注意事项:

Disposal precautions:

弃置方法应符合适用的地区、国家及本地的法律和条例。

Disposal methods should be in accordance with applicable regional, national and local laws and regulations.

第 14 部分 运输信息 Section 14 Transport Information

联合国危险货物编号(UN 号): 联合国，国际海事组织，公路及铁路运输组织和国际航空协会国际民航组织均不列为危险运输品

United Nations Number (UN Number): The United Nations, the International Maritime Organization, the Road and Rail Transport Organization, the IATA and the International Civil Aviation Organization are not classified as dangerous goods

联合国运输名称：三乙二醇

UN shipping name: Triethylene glycol

联合国危险性分类：1

UN hazard category: 1

包装类别：Z01

Packing category: Z01

包装标志：易燃液体

Packing mark: flammable liquid

包装方法：桶装、专用槽车。

Packing method: Drum, special tank car.

海洋污染物(是/否): 否

Marine pollutants (yes/no): no

运输注意事项:

Caution during transportation:

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、酸类等混装混运。船运时，应与机舱、电源、火源等部位隔离。公路运输时要按规定路线行驶。

Check whether the container is complete and sealed before shipment, and make sure that no leakage, fall or damage shall occur during transportation. Mixed shipment and transportation with oxidants and acids is strictly prohibited. For transportation by sea, keep it away from cabin, power source and fire source. When transporting goods by road, follow the prescribed route.

第 15 部分 法规信息 Section 15 Regulatory Information

化学危险物品安全管理条例 (1987 年 2 月 17 日国务院发布), 化学危险物品安全管理条例实施细则 (化劳发[1992] 677 号), 工作场所安全使用化学品规定 ([1996] 劳部发 423 号) 等法规, 针对化学危险品的安全使用、生产、储存、运输、装卸等方面均作了相应规定。

The Regulations of Safe Management Regarding Dangerous Chemicals (promulgated by the State Council on February 17, 1987), Implementation Details regarding Safety Regulations on Managing Dangerous Chemicals (the Labor's [1992] No. 677), and Regulation on safe use of chemicals at workplaces ([1996] Ministry of labor No. 423) have made corresponding Provisions on the safe use, production, storage, transportation, loading and unloading of hazardous chemicals.

第 16 部分 其他信息 Section 16 Other Information

编写和修订信息:

Revision information:

本 SDS 按照《化学品安全技术说明书内容和项目顺序》(GB/T16483-2008) 标准编制; 由于目前国家尚未颁布化学品 GHS 分类目录, 本 SDS 中 化学品的 GHS 分类是企业根据化学品分类、警示标签和警示性说明规范系列标准(GB 20576-2006~GB20602-2006) 自行进行的分类, 待国家化学品 GHS 分类目录颁布后再进行相应调整。

This SDS is prepared in accordance with the Safety Data Sheet for Chemical Products—Content and Order of Section (GB/T16483-2008). Since the country has not yet issued a chemical GHS classification catalog, the GHS classification of chemicals in this SDS is made by the company based on Safety Rules for Classification, Precautionary Labeling and Precautionary Statements of Chemicals (GB 20576-2006~GB20602-2006) and will be adjusted after the promulgation of the national chemical GHS classification catalog.

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产品名称：工业用三乙二醇
Product Identifier: Triethylene glycol for industrial use
修订日期：2019 年 8 月 6 日
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SDS 编号：HG-00X
SDS No.: HG-00X

缩略语和首字母缩写：

Abbreviations and acronyms:

MAC:指工作地点、在一个工作日内、任何时间有毒化学物质均不应超过 的浓度。

MAC: refers to the concentration of toxic chemical substances that should not be exceeded at any time at the workplace, within a working day.

PC-TWA:指以时间为权数规定的 8h 工作日、40h 工作周的平均容许接触浓度。

PC-TWA: refers to the average allowable exposure concentration in 8h working days and 40h working weeks weighted by time.

PC-STEL:指在遵守 PC-TWA 前提允许短时间 (15min)接触的浓度。

PC-STEL: refers to the concentration allowed for short-term (15min) exposure in compliance with PC-TWA.

TLV-C:瞬时亦不得超过的限值。是专门对某些物质如刺激性气体或以急 性作用为主的物质规定的。

TLV-C: refers to a limit that must not be exceeded in an instant. It is specifically regulated for certain substances such as irritating gases or substances with mainly acute effects.

TLV-TWA:是指每日工作 8 小时或每周工作 40 小时的时间加权平均浓度， 在此浓度下终身工作时间反复接触对几乎全部工人都不致产生不良效应。TLV-STEL:是在保证遵守 TLV-TWA 的情况下，容许工人连续接触 15min 的 最大浓度。此浓度在每个工作日中不得超过 4 次，且两次接触间隔至少 60min。它是 TLV-TWA 的一个补充。

TLV-TWA: refers to the time-weighted average concentration of 8 hours of work per day or 40 hours of work per week. At this concentration, repeated exposure during lifetime working hours will not produce adverse effects on almost all workers. TLV-STEL: refers to the maximum concentration allowed for continuous exposure of workers for 15 minutes while ensuring compliance with TLV-TWA. This concentration should not be exceeded 4 times in each working day, and the interval between two exposures should be at least 60 min. It is a supplement to TLV-TWA.

IARC:是指国际癌症研究所

IARC: refers to International Agency for Research on Cancer.

RTECS:是指美国国家职业安全与健康研究所的化学物质毒性数据库

RTECS: refers to Registry of Toxic Effects of Chemical Substances of National Institute for Occupational Safety and Health.

HSDB:是指美国国家医学图书馆的危险物质数据库

HSDB: refers to Hazardous Substances Data Bank of United States National Library of Medicine.

ACGIH:是指美国政府工业卫生学家会议

ACGIH: refers to American Conference of Governmental industrial Hygienists

免责声明：

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本 SDS 的信息仅适用于所指定的产品，除非特别说明，对于本产品与其他物质的混合物等适用。本 SDS 只为那些受过适当专业训练的该产品的使用人员提供产品使用安全方面的资料。本 SDS 的使用者，在特殊的使用条件下必须对该 SDS 的适用性作出独立判断。在特殊的使用场合下，由于使用本 SDS 所导致的你伤害，本 SDS 的编写者将不负任何责任。

产品名称：工业用三乙二醇
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SDS 编号：HG-00X
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The information in this SDS is only applicable to the specified products, and if otherwise specified, to mixtures of this product and other substances. This SDS only provides information on product safety for those users who have received appropriate professional training. SDS users shall have independent judgment on the applicability of SDS under special conditions of use. And in such conditions, the SDS authors shall not be responsible for any damage caused by using it.