



杭州海关技术中心
国家危险化学品检测重点实验室（浙江）



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正本/ORIGIN

编号: TCH23006919R1

No: TCH23006919R1

日期: 2023-05-17

Date: 2023-05-17

ZAIQ-RF(HH)-01-19

Safety Data Sheet

扫描查看在线报告



Applicant name: QUZHOU GAINS HARDWARE TOOLS CO., LTD.

Product Name: PROPYLENE

Edit date: 2023-05-17

Edit institution: Technology Center of Hangzhou Customs District

Approver:

万旺军

1. Unless other wise stated, this test report is only responsible for the sample(s).
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声 明

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The result in this test report is only valid for the tested samples.

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4. 本报告各页均为报告不可分割部分，使用者部分使用检测报告而导致误解或由此造成后果，本机构不承担任何责任。

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1. Identification of substance

Product Name	PROPYLENE
Other Name	Map-pro
Chemical Name	None
Recommended Use	Brazing gas
Supplier	QUZHOU GAINS HARDWARE TOOLS CO., LTD.
Address	Room 904, Building 3, No.1 Bingang South Road, Quzhou City, Zhejiang Province / 324000
Phone Number	+86-570-8831052
Fax Number	+86-570-8831060
WEB or E-mail	None
Emergency Phone Number	+86-570-8831019 or call your nearest poison control centre

2. Hazards identification

GHS classification	Flammable gases 1 Gases under pressure (Liquefied gas)
GHS Pictograms	
Signal words	Danger
Hazard statements	H220:Extremely flammable gas H280:Contains gas under pressure;may explode if heated
Precautionary Statement Prevention	P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary Statement Response	P377:Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381:In case of leakage, eliminate all ignition sources.
Precautionary Statement Storage	P403:Store in a well-ventilated place. P410+P403:Protect from sunlight. Store in a well-ventilated place.
Precautionary Statement Disposal	None
Other hazards which do not result in classification	Not applicable.

3. Composition/information on ingredients

Substances

Mixtures

Component Information

Component	CAS number	EINECS number	Mass(%)
PROPYLENE	115-07-1	204-062-1	99.5-100%wt

Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%.

4. First-aid measures

NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.
After skin contact	ON FROSTBITE: soak the affected part in warm water at 38-42 °C. Don't rub it. Do not use hot water or radiant heat. Bandage with clean, dry dressings. If you feel unwell, see a doctor.
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.
After ingestion	Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.
Most important symptoms/effects, acute and delayed	This product is a simple asphyxiant and mild anesthetic. Symptoms of eye and upper respiratory tract irritation include tearing, coughing, and chest tightness. Symptoms of central nervous system depression include inattention, apathy, paresthesia, vomiting, dizziness, limb weakness, staggering gait, decreased muscle tone and strength, and knee hyperreflexia. There may be loss of appetite and abnormal liver enzymes. Blood pressure drop and cardiac arrhythmia occur in severe poisoning. Direct contact with liquid products can cause frostbite.

5. Fire-fighting measures

Suitable extinguishing agents	Water spray, foam, dry chemical, CO ₂ . Cut off supply, if not possible and no risk to surroundings, let the fire burn itself out. Move the container from the fire area to an open area as much as possible. Keep fire containers cool by spraying water until the fire is over.
Special hazards caused by the material, its products of combustion or flue gases	Extremely flammable, mixed can form explosive mixtures with air. In case of heat and open flame is in danger of burning explosion. Combination with nitrogen dioxide, nitrogen tetroxide, nitrous oxide and others, violent reaction with other oxidants. The gas is heavier than air and may travel along the ground and accumulate in low areas, distant ignition possible. Can be released in case of fire: Carbon monoxide, carbon dioxide.
Protective equipment for	Wear self-contained breathing apparatus, a chemical safety

fire-fighters	goggles, antistatic work clothes, rubber gloves.			
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6. Accidental release measures				
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Person-related safety precautions	Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Ventilate closed spaces before entering. Keep unnecessary personnel away.			
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.			
Measures for cleaning/collecting	Control leakage, dilution with water spray, convection and ventilation, dilution and diffusion.			
Additional information	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.			

7. Handling and storage				
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Handling				
Information for safe handling	Enclosed operation. Avoid contact with skin, eyes, mucous membranes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.			
Information about protection against explosions and fires	Keep away from heat, sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Containers under pressure. Do not puncture, incinerate. Closed operation, ventilation and convection.			
STORAGE				
Requirements to be met by storerooms and containers	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used.			
Information about storage in one common storage facility	In the process of transmission, the cylinder and the container must be grounded and jumper, prevent to produce static electricity. When handling light discharge, to prevent the cylinder and accessories damage. Equipped with leak emergency processing equipment. Store away from incompatible substances such as strong oxidant, acid, nitrogen dioxide, nitrogen tetroxide, nitrous oxide.			
Further information about storage conditions	No data.			

8. Exposure controls/personal protection				
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Limit Values for Exposure					
Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-STEL

PROPYLENE	115-07-1	500 ppm	N.E.	N.E.	N.E.
Appropriate engineering controls	Enclosed operation, overall ventilation.				
General protective and hygienic measures	Generally do not need special protection. Wear safety glasses and gloves when contact high concentration.				
Personal protective equipment	Safety glasses, overalls, protective gloves.				
Breathing equipment	When workers are facing high concentrations they must use appropriate certified respirators.				
Protection of hands	Wear appropriate chemical resistant gloves.				
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.				
Body protection	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.				

Note: 1. N.E. means not established.

9. Physical and chemical properties

Physical state	Liquefied gas
Colour	Colorless
Odour	No data available
Melting point/freezing point	-185 °C
Boiling point or initial boiling point and boiling range	-48 °C
Flammability	Extremely flammable
Lower and upper explosion limit/flammability limit	Upper: 10.3 %(V) lower: 2.4 %(V)
Flash point	-108 °C
Auto-ignition temperature	460 °C
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water(log value)	1.77
Vapour pressure	1158 kPa (25 °C)
Density and/or relative density	0.5

Relative vapour density (air=1)	1.5
Particle characteristics	Not applicable

10. Stability and reactivity

Reactivity	No data available.
Chemical stability	Stable under normal temperature and pressure.
Possibility of hazardous reactions	There is a risk of fire and explosion in contact with incompatible substances such as strong oxidants. Dangerous polymerization reactions can occur under high heat.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight. Static discharge. Shock or vibration.
Incompatible materials	Strong oxidants, strong acids, nitrogen dioxide, nitrogen tetroxide, nitrous oxide.
Hazardous decomposition products	May include carbon monoxide, carbon dioxide.

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.	
Acute Toxicity	LD50 (Oral, rat): N/A LC50 (Inhalation, rat): N/A LD50 (Dermal, rabbit): N/A
Skin corrosion/Irritation Serious	Not classified
eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic Effects	Not classified
Further Information	No data

12. Ecological information

Ecotoxicity	
Aquatic Toxicity	Test & Species 96 Hr LC50 fish: N/A 48 Hr EC50 Daphnia: N/A 72 Hr EC50 Algae: N/A
Persistence and degradability	Not available
Bioaccumulative potential	Not available

Mobility in soil	Not available
Additional Information	May be harmful to the environment.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.
 Dispose of in accordance with local environmental regulations or local authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number	UN 1077
Proper Shipping Name	PROPYLENE
Class/Division	Division 2.1 Flammable Gases
Package Group	—
Subsidiary risk	—
labelling pictogram	



Maritime transport IMDG/ Marine pollutant (Yes/No)	Being same with TDG/No
Air transport ICAO-TI and IATA-DGR	Being same with TDG

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).

EINECS Status: This chemical is included in EINECS inventory.

EPA TSCA Status: This chemical is included in TSCA inventory.

Canadian DSL (Domestic Substances List): This chemical is included in DSL.

HMIS (Hazardous Material Identification System Ratings):

Health:	1
Flammability:	3
Physical hazard:	1
Personal protection:	E
(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)	

WHMIS (Canadian Workplace Hazardous Material Identification System Ratings): A, B1.

GB 12268-2012 List of dangerous goods This chemical is a dangerous goods on the GB 12268-2012 list of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE", "International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
 IMDG: International Maritime Code for Dangerous Goods
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 EC50: Effective concentration, 50 percent

Edit Date 17.05.2023(Modification date 18.10.2023)

Update and Revise Second edition

Edit Standard *Globally Harmonized System of Classification and Labelling of Chemicals* Part 1.5

Revised Institution Technology Center of Hangzhou Customs District



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化学品安全数据表



申请单位: 衢州德果五金工具有限公司

产品名称: 丙烯

编制日期: 2023-05-17

编制机构: 杭州海关技术中心

批准人:

万旺军

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1. 标识

产品名称	丙烯
其他名称	焊接气
化学名称	无
使用建议	焊接气
供应商	衢州德果五金工具有限公司
地址	浙江省衢州市宾港南路 1 号 3 幢 904 室/324000
固定电话	+86-570-8831052
传真	+86-570-8831060
网址或电子邮件地址	无
应急电话	+86-570-8831019 或向离你最近的解毒中心求助

2. 危险标识

GHS 危险性分类	易燃气体 1 类 加压气体（液化气体）
GHS 危险标签	
信号词	危险
危险说明	H220:极易燃气体 H280:内装加压气体，遇热可爆炸
防范说明	P210:远离热源、热表面、火花、明火和其他点火源。禁止吸烟。
预防	
防范说明	P377:漏气着火：置于通风良好处。切勿灭火，除非可安全堵住泄漏。
反应	P381:漏气时，去除一切点火源。
防范说明	P403:存放于凉爽/通风处
贮存	P410+P403:防日晒，存放于通风良好处
防范说明	无
处置	
不导致分类的其他危险	未知

3. 成分构成/成分信息

<input checked="" type="checkbox"/> 物质			
<input type="checkbox"/> 混合物			
成分信息			
成分	CAS 号	EINECS 号	含量(%)
丙烯	115-07-1	204-062-1	99.5-100%wt
注：1.在化学品安全数据表中无需考虑百分含量小于 1%的成分，除非该成分呈现出严重的危害性			

4. 急救措施

对医师的建议	在呼吸急促的情况下，需给受害人输氧。保持受害人温暖。让受害人处于观察监护下。
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吸入后	转移到有新鲜空气的地方。如需要，须输氧或进行人工呼吸。 马上就医。
皮肤接触后	如果发生冻伤：将患部浸泡于保持在 38~42 °C 的温水中复温。不要涂擦。不要使用热水或辐射热。使用清洁、干燥的敷料包扎。如有不适感，就医。
眼睛接触后	立即用大量的水冲洗眼睛至少 15 分钟。用手指分开眼睑以保证充分冲洗眼睛。马上就医。
摄入后	无医师建议的情况下不要引吐。如果受害人需呕吐，使其前倾以减少倒吸的危险。解松过紧的衣物，如领子、领带、皮带或腰带。不要使用嘴对嘴的方法实施救助。马上就医。
主要的症状和影响，包括急性和迟发效应	本品为单纯窒息剂及轻度麻醉剂。眼和上呼吸道刺激症状有流泪、咳嗽、胸闷等。中枢神经系统抑制症状有注意力不集中、表情淡漠、感觉异常、呕吐、眩晕、四肢无力、步态蹒跚、肌张力和肌力下降、膝反射亢进等。可有食欲不振及肝酶异常。严重中毒时出现血压下降和心律失常。直接接触液态产品可引起冻伤。
5. 消防措施	
合适的灭火剂	雾状水、泡沫、干粉、二氧化碳。切断气源，如不可能灭火，对周围环境无危险，让火自行燃尽。尽可能将容器从火场移至空旷处。喷水保持火场容器冷却，直至灭火结束。
由物质本身或其燃烧产物、烟气产生的特殊危险	极易燃，与空气混合能形成爆炸性混合物。遇热源和明火有燃烧爆炸的危险。与二氧化氮、四氧化二氮、氧化二氮等激烈化合，与其它氧化剂接触剧烈反应。气体比空气重，能在较低处扩散到相当远的地方，遇火源会着火回燃。在发生火灾时可能释放：一氧化碳，二氧化碳。
消防人员的特殊防护设备	自持呼吸器，化学安全防护眼镜，防静电工作服，橡胶手套。
6. 泄露应急处理	
与人相关的安全防范措施	避免吸入蒸气、气雾或气体。确保通风充分。移除所有点火源。防止蒸气累积到形成爆炸的浓度，蒸气可蓄积在地面低洼处。在进入封闭空间前先通风。请不相关人员撤离。
环境保护措施	如能做到应防止进一步的泄露和溢出。无相关政府许可，不允许把该物质释放到环境中。
清洁/收集措施	控制泄露，雾状水稀释，通风对流，稀释扩散。
附加说明	关于安全操作的信息见第 7 部分 关于个人防护设备的信息见第 8 部分 关于处置的信息见第 13 部分
7. 操作和存储	
操作	
安全操作的信息	密闭作业。 避免和皮肤、眼睛、粘膜、衣服接触。 在通风不充分的情况下，使用合适的呼吸设备。
防止爆炸和火灾的信息	远离热源，火源——禁止吸烟。 采取措施防止静电电荷积累。 压力容器，不要刺穿和焚烧。 密闭作业，通风对流。

存储

对储藏室和容器的要求	存放在阴凉、干燥、通风良好的地方。使用前保持容器密闭。
关于储藏在普通存储设施中的信息	在传送过程中，钢瓶和容器必须接地和跨接，防止产生静电。搬运时轻装轻卸，防止钢瓶及附件破损。配备泄漏应急处理设备。远离不相容的物质如强氧化剂、强酸、二氧化氮、四氧化二氮、氧化二氮。
关于储藏条件进一步的信息	无其他说明。

8. 暴露控制/人身保护

暴露限值					
成分	CAS 号	ACGIH 阈值-时间加权平均浓度	ACGIH 阈值-短时间接触限值	NIOSH 阈值-时间加权平均浓度	NIOSH 阈值-短时间接触限值
丙烯	115-07-1	500 ppm	N.E.	N.E.	N.E.
减少接触的 engineered 控制方法		密闭作业，全面通风。			
一般保护和卫生措施		一般不需特殊防护，高浓度接触时可戴安全防护眼镜，手套。			
个人防护用品		防护眼镜，工作服，防护手套。			
呼吸设备		当工人在高浓度的环境下工作时，必须使用合适的已认证的呼吸器。			
双手保护		戴合适的耐化学腐蚀的手套。			
眼睛/面部保护		使用带侧罩或安全眼镜的护目镜作为工人长期暴露的机械屏蔽。			
身体保护		全套防化学试剂工作服，阻燃防静电防护服，防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择。			

注:1. N.E. 一未建立。

9. 物理和化学特性

物理状态	液化气体
颜色	无色
气味	无数据资料
熔点/凝固点	-185 °C
沸点或初始沸点和沸程	-48 °C
易燃性	极度易燃
上、下爆炸极限/易燃极限	爆炸上限: 10.3 %(V) 爆炸下限: 2.4 %(V)
闪点	-108 °C
自燃温度	460 °C
分解温度	无数据资料
pH 值	无数据资料
运动粘度	无数据资料
溶解性	不溶于水
分配系数:正辛醇/水 (对数值)	1.77
蒸汽压	1158 kPa (25 °C)
密度和/或相对密度	0.5
相对蒸气密度 (空气=1.0)	1.5

颗粒特征	不适用
10. 稳定性和反应活性	
反应性	无数据资料。
化学稳定性	在常温常压下稳定。
有害反应的可能性	与强氧化剂等禁配物接触，有发生火灾和爆炸的危险。高热下易发生危险的聚合反应。
需避开的条件（如：静电放电，震动等）	热、火焰和火花。极端的温度和阳光直射。静电。震动。
不相容的物质	强氧化剂、强酸、二氧化氮、四氧化二氮、氧化二氮。
有害分解产物	可能包括一氧化碳、二氧化碳。
11. 毒理学信息	
进入人体内的途径：皮肤接触、眼睛接触、吸入和摄入。	
急性毒性	LD50（口服，大鼠）：未知 LC50（吸入，大鼠）：未知 LD50（皮肤，兔子）：未知
皮肤腐蚀/刺激	未分类
严重眼损伤/刺激	未分类
呼吸或皮肤敏化作用	未分类
生殖细胞致突变性	未分类
致癌性	未分类
生殖毒性	未分类
特定目标器官毒性-单次接触	未分类
特定目标器官毒性-重复接触	未分类
吸入危险	未分类
慢性影响	未分类
其他信息	无
12. 生态学信息	
生态毒性	
水生毒性	测试 & 物种 96 Hr LC50 鱼：未知 48 Hr EC50 溞类：未知 72 Hr EC50 藻类：未知
持久性和降解性	未知
潜在的生物累积性	未知
土壤中的迁移性	未知
其他信息	对环境可能有害。
13. 废弃处置	
废物处置说明	联系一家有资质的专业废物处置机构来处置。 按照当地的环境法规或地方当局的要求来进行处置。
14. 运输信息	
联合国《关于危险货物运输的建议书 规章范本》(TDG)	

UN 编号	UN 1077
正式运输名称	丙烯
危险类/项别	2.1 项 易燃气体
包装类别	—
次要危险性	—
危险性标签	



国际海运危规 IMDG/海洋 污染物（是/否）	与 TDG 的分类相同/否
国际空运危规 ICAO-TI 和 IATA-DGR	与 TDG 的分类相同

15. 法规信息

欧洲/国际法规

OSHA (美国职业安全与健康管理法): 危险性根据危害通讯标准来编写 (29CFR 1910.1200).

EINECS (欧洲现有商业化物质名录): 该化学品被列入 EINECS 目录中。

EPA TSCA(有毒物质控制法): 该化学品被列入 TSCA 目录中。

加拿大 DSL (国内物质清单): 该化学品被列入 DSL 目录中。

HMIS(危险品识别系统): 健康危害: 1
易燃性: 3
物理危害: 1
个人防护: E
(4. 极其严重危害; 3. 严重危害; 2. 中度危害; 1. 轻度危害; 0. 极小危害)

WHMIS(加拿大工作场所有害物质识别系统): A, B1。

GB 12268-2012 危险品清单 该化学品作为危险品被列入 GB 12268-2012 危险品清单。

16. 其他信息

雇主只能把本化学品安全数据表的信息当作他们所获其他信息的补充信息,并能独立判断此信息的适用性,以确保正确使用并保护雇员的健康和安全。此化学品安全数据表提供的信息并不具担保作用,任何未按本化学品安全数据表使用产品、或与其他产品和操作过程同时使用本产品时产生的后果由用户自行承担。

本化学品安全数据表是根据《全球化学品统一分类和标签制度》,《联合国关于危险货物运输的建议书》,《国际海运危规》,国际航空运输协会《危险货物规则》和国家标准等相关危险化学品管理法律法规和标准进行编制,而上述法律法规和标准均会定期进行更新和变化。为使危险货

物/危险化学品符合相关最新的管理要求，建议定期审核更新化学品安全数据表。

本化学品安全数据表分别以中、英文编制，在对中、英文本的理解上发生歧义时，以中文文本为准。

缩略语

ADR:《关于危险货物道路国际运输的欧洲协议》

RID:《关于危险货物铁路国际运输的规则》

IMDG: 国际海运危规

IATA-DGR: 国际航空运输协会《危险货物规则》(IATA)

ICAO-TI: 国际民用航空组织《国际民航公约》(ICAO)

EINECS: 欧洲现有商业化学物质名录

CAS: 化学文摘号

LC50: 半数致死浓度

LD50: 半数致死剂量

EC50: 半数效应浓度

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编制机构

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