

乙二醇单丙基醚安全技术说明书

MATERIAL SAFETY DATA SHEET (MSDS)


第一部分：化学品名称及企业标识

Section One Chemicals and Corporate Identity

化学品中文名称: Chinese Name of Chemical:	乙二醇单丙基醚	化学品俗名: Chemical name	2-正丙氧基乙醇 2-Propoxyethanol
化学品英文名称: English Name of Chemical:	Ethylene glycol monopropyl ether	英文名称: English Name:	propyl cellosolve
技术说明书编码: Technical Manual No.:	2954 2954	CAS No.:	2807-30-9
生产企业名称: Manufacturer:	怡达化工 Manufacturer: Yida Chemical 江苏怡达化学股份有限公司 Jiangsu Yida Chemical Co., Ltd 吉林怡达化工有限公司 Jilin Yida Chemical Co., Ltd 珠海怡达化学有限公司 Zhuhai Yida Chemical Co., Ltd		
传真: Fax:	0510-86608528 0432-63050899 0756-7713707 0510-86608528 0432-63050899 0756-7713707		
企业应急电话: 0510-86609119 043263058009 0756-7716858 Emergency Phone Number in Company: 0510-86609119 043263058009 0756-7716858 电子邮件地址: info@yidachem.com E-mail: info@yidachem.com 技术说明书编号: YD-A5 Technical Manual No.: YD-A5 生效日期: 2012.4.1 Commencement Date: 2012.4.1 国家应急电话: (区号) 120 ; (区号) 119 。 State's Emergency Phone Number: (area code)120;(area code)119			

第二部分：危险性概述

Section Two Risk Summarize

危险性说明: Hazard Statement:	本品易燃 Flammable Liquid
图形符号 Pictogram	
信号词 Signal Words	警告 Warning
健康危害: Health Hazard:	蒸气对皮肤、呼吸道有刺激性，吸入引起流涕、胸闷、咳嗽。短时皮肤接触引起红肿、疼痛，长时间接触引起灼伤。可经皮吸收引起中毒。可致角膜损伤。 Irritant, harmful if inhalation or absorbed through the skin. Inhalation causes runny nose, chest tightness and cough. Brief contact may cause pain and local redness. Long-term May Cause burns of skin. Percutaneous absorption causes poisoning, May cause slight corneal
环境危害: Environmental Hazards:	对环境有危害，对水体可造成污染。 It's harmful to the environment and can cause pollution of water bodies.
燃爆危险: Blasting Danger:	本品易燃。 Inflammable

第三部分：成分/组成信息

Section Three Composition Information

有害物成分 Composition	含量 Content(%)	CAS No.
乙二醇单丙基醚 Ethylene glycol monopropyl ether	≥99	2807-30-9

第四部分：急救措施

Section Four First Aid Treatments

皮肤接触: Skin Contact	立即脱去污染的衣着，用大量流动清水冲洗至少 15 分钟。就医。 Take off the contaminated clothes, and flush skin in flowing water for at least 15 minutes. Go to a doctor.
眼睛接触:	立即提起眼睑，用大量流动清水或生理盐水彻底冲洗至少 15 分钟。就医。

Eye contact:	Immediately flush eyes with water; remove contact lenses, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
吸入: Inhalation:	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。 Move person to fresh air. If not breathing, begin artificial respiration immediately. If effects occur, consult a physician.
食入: Ingestion:	饮足量温水，催吐。就医。 Drink the victim enough warm water and make to vomit, send for a doctor.

第五部分：消防措施

Section Five Method For Fire Fighting

危险特性: Hazardous Properties:	其蒸气与空气可形成爆炸性混合物，遇明火、高热极易燃烧爆炸。与氧化剂接触猛烈反应。若遇高热，容器内压增大，有开裂和爆炸的危险。 In case of fire, high fever and oxidant, it will catch fire. Contact with air or light conditions can generate with a potential explosion risk of peroxides. Contact with high fever can increase the internal pressure of container and make the generation with a potential crack and cause the risk of explosion.
有害燃烧产物: Hazardous combustion products:	一氧化碳、二氧化碳。 CO and CO ₂
灭火方法: Measures for Fire Fighting:	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。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。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。灭火剂：水、雾状水、抗溶性泡沫、干粉、二氧化碳、砂土。 Move the container to spacious place from the fire ground as far as possible. Spray water to keep the container of fire ground cooling till the fire is put out. If the container of the fire ground has changed the color or made a sound from the safe relief device, people should evacuate immediately. Spry the escaping liquid with water and dilute the liquid into incombustible mixture. Protect the fire fighters with fog-typed water. The Extinguishant: Extinguished with fog-typed water, foam, dry powder, CO ₂ and sand.

第六部分：泄漏应急处理

Section Six Emergency Treatment With Leakage

<p>应急处理:</p> <p>Emergency Treatment:</p>	<p>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式呼吸器, 穿防静电工作服。不要直接接触泄漏物。尽可能切断泄漏源。防止流入下水道、排洪沟等限制性空间。小量泄漏: 用砂土或其它不燃材料吸附或吸收。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。</p> <p>Evacuate area., and isolation and strict restrictions on access, cut off all sources of ignition, wear gas masks and gloves; absorbed with sand, pour into the open space in landfills; use water to rinse the contaminated ground, diluted sewage into the wastewater system, keep ventilated with the polluted ground. If ensure safety, take measures to prevent the further spillage. Prevent to inpour into the sewer and discharge into the surrounding environment Collect and process the leakage. Store in a suitable sealed handling container.</p>
--	--

第七部分: 操作处置与储存

Section Seven Operation, Disposition And Storage

<p>操作注意事项:</p> <p>Precautions in operation:</p>	<p>密闭操作, 全面通风。防止蒸气泄漏到工作场所空气中。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, 穿透气型防毒服, 戴防化学品手套。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。在清除液体和蒸气前不能进行焊接、切割等作业。避免产生烟雾。避免与氧化剂接触。配备相应品种和数量的消防器材及泄漏应急处理设备。倒空的容器可能残留有害物。</p> <p>Closed operation, provide general and/or local exhaust ventilation. Prevent vapor leakage into the workplace air. The operator must be trained, strict adherence to rules. Operating personnel should wear full chemical protective clothing, protective gloves and wear a tight assembly safety glasses to avoid contact with skin and eyes or inhale vapour or mist. Thoroughly cleaning after operation. Away from fire, heat. No smoking in workplace. Use explosion-proof ventilation systems and equipment. Do not weld, cut and Etc. before removing liquid and vapor Avoid smoke. Avoid contact with oxidizing agents. Corresponding with the variety and quantity of fire equipment and emergency equipment. Empty containers may have harmful residues inside.</p>
<p>储存注意事项:</p> <p>Storage precautions:</p>	<p>储存于阴凉、通风的库房。远离火种、热源。防止阳光直射。保持容器密封。应与氧化剂分开存放, 切忌混储。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。储区应备有泄漏应急处理设备和合适的收容材料。</p> <p>Stored in a cool, ventilated warehouse, kept away from fire, heat source and direct sunlight. Keep the container seal. Storage and transportation isolated from oxidant. The lighting and ventilation facilities of warehouse should use the explosion proof type. The technical measures to prevent fire and explosion should put into effect during the storing. The</p>

equipments and tools which is easy to produce the spark are forbidden to use.

第八部分：接触控制/个体防护

Section Eight Contact and Unit Protective

中国 MAC(mg/m3): MAC of China:	未制定标准 No relative data.
前苏联 MAC(mg/m3): Max Steam Tense in the former Soviet Union:	未制定标准 No relative data.
TLVTN:	未制定标准 No relative data.
TLVWN:	未制定标准 No relative data.
监测方法: Test means:	无资料 No relative data.
工程控制: Project Control:	生产过程密闭，全面通风。 Be airtight during the productive process, ventilate the workplace.
呼吸系统防护: Respiratory Protection:	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）。 Don't need special protection generally. When there are a large number of leaks, the personnel should wear gas masks.
眼睛防护: Eyes Protection:	空气中浓度较高时，佩戴戴化学安全防护眼镜。 Wearing Chemical defense glasses when the concentration of the substance in air is higher.
身体防护: Body Protection:	穿透气型防毒服。 Wearing Gas-penetrating protective clothing
手防护: Hands Protection:	戴防化学品手套。 Wearing chemical resistant gloves
其他防护: Other Protection:	工作时不得进食、饮水或吸烟。工作完毕，彻底清洗。保持良好的卫生习惯。 No smoking, eating and drinking in workplace, washing hands before eating. After work, take a shower. Maintain good health habits.

第九部分：理化特性

Section Nine Physical characters

外观与性状: Appearance and Trait:	具有轻微乙醚和苦味的挥发性液体。 Volatile liquid with ether and slightly bitter taste.		
pH:	无资料 No Data.		
熔点(°C): Melting Point(°C):	无资料 No Data.	相对密度(水=1): Relative Density (water=1) :	0.909(25°C)
沸点(°C): Boiling Point(°C):	150~152(101.3kPa)	相对蒸气密度(空气=1): Relative Consistence(Air=1)	无资料 No Data.
分子式: Molecular Formula:	C ₅ H ₁₂ O ₂	分子量: Molecular weight:	104.17
主要成分: Main Components:	乙二醇单丙基醚 Ethylene Glycol Mono-propyl ether		
饱和蒸气压(kPa): Saturated Vapor Pressure(kPa):	0.4	燃烧热(kJ/mol): Heat of Combustion(kJ/mol):	无资料 No Data.
临界温度(°C): Stagnation Temperature(°C):	无资料 No Data.	临界压力(MPa): Critical Pressure(MPa):	无资料 No Data.
辛醇/水分配系数的对数值: Octanol/water partition coefficient:	无资料 No Data.		
闪点(°C): Flash Point(°C):	48 (闭杯) 48 (closed)	爆炸上限%(V/V): Explosion upper limit%(V/V):	无资料 No Data.
引燃温度(°C): Ignition Temperature(°C):	无资料 No Data.	爆炸下限%(V/V): Explosion lower limit % (V/V) :	无资料 No Data.
溶解性:	可混溶于水多数有机溶剂。		

Solubility:	Can be mixed and dissolved in water and most organic solvents
主要用途: Main Application:	用作树胶、喷漆、颜料、清漆、染料、油墨、清洁剂等的溶剂。也作为稀释剂和要求某些化学中间产物。 Used as solvents for rubber,spray lacquer,paint,varnish,dyestuff,printing ink,detergent etc. Also can be used as diluent and requirements of chemical intermediate.
其它理化性质: Other Physical and Chemical Properties:	无资料 No Data.

第十部分：稳定性和反应活性

Section Ten Stability and reaction conditions

稳定性: Stability:	无资料 No Data.
禁配物: Forbidden Materials to Mix With:	强氧化剂。 Strong Oxidant
避免接触的条件: Avoid Contacting With:	无资料 No Data.
聚合危害: Dangers in Polymerization:	无资料 No Data.
分解产物: Decompose reactions:	无资料 No Data.

第十一部分：毒理学资料

Section Eleven Toxicological data

急性毒性: Acute Toxicity:	LD50: 500~1000 mg/kg(大鼠经口) LC50: 无资料 LD50: 500~1000 mg/kg(the acute oral of the rats) LC50: No Data.
--	---

亚急性和慢性毒性： Subacute and Chronic Toxicity:	无资料 No Data.
刺激性： Irritation:	家兔经皮：500mg/24 小时，轻度刺激。家兔经眼：100mg，重度刺激。 Rabbit percutaneous: 500mg/24hours, mild irritating。Rabbit by eye: 100mg, severe stimulus.
致敏性： Sensitization:	无资料 No Data.
致突变性： Mutagenicity:	无资料 No Data.
致畸性： Teratogenicity:	无资料 No Data.
致癌性： Carcinogenicity:	无资料 No Data.

第十二部分：生态学资料

Section Twelve Ecology data

生态毒理毒性： Ecological Toxicity:	无资料 No Data.
生物降解性： Biodegradability:	无资料 No Data.
非生物降解性： Non-biodegradability:	无资料 No Data.
生物富集或生物积累性： Biological enrichment or cumulative:	无资料 No Data.
其它有害作用： Other Harmful Effects:	该物质对环境有危害，应特别注意对水体的污染。 The material is harm to the environment and should pay more attention to the pollution of water.

第十三部分：废弃处置

Section Thirteen Abandon treatment

<p style="text-align: center;">废弃物性质:</p> <p>Waste Material Properties:</p>	<p>无资料</p> <p>No Data.</p>
<p style="text-align: center;">废弃处置方法:</p> <p>Waste Disposal Method:</p>	<p>建议用焚烧法处置。在能利用的地方重复使用去容器或在规定场所掩埋。</p> <p>Suggest to burn. Repeated use the container in the useful place or bury in the prescribed place.</p>
<p style="text-align: center;">废弃注意事项:</p> <p>Precautions:</p>	<p>无资料</p> <p>No Data.</p>

第十四部分：运输信息

Section Fourteen Transport information

<p style="text-align: center;">危险货物编号:</p> <p>Dangerous Goods NO.:</p>	<p>3+6.1</p> <p>3+6.1</p>
<p style="text-align: center;">UN 编号:</p> <p style="text-align: center;">UN NO.:</p>	<p>1986</p> <p>1986</p>
<p style="text-align: center;">包装标志:</p> <p>Packing Mark:</p>	<p>无资料</p> <p>No Data</p>
<p style="text-align: center;">包装类别:</p> <p>Packing Category:</p>	<p>无资料</p> <p>No Data</p>
<p style="text-align: center;">包装方法:</p> <p>Packing Method:</p>	<p>无资料。</p> <p>No Data</p>
<p style="text-align: center;">运输注意事项:</p> <p>Safety measures and precautions for carriage by ships:</p>	<p>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。Check the container whether it is complete, sealing or not, make sure the container does not leak, collapse,fall,damage in the course of transportation.</p> <p>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。The transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency leakage equipment in the course of transportation.</p> <p>夏季最好早晚运输。It is better to transport in the morning and the night of summer.</p> <p>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。The tank should use the grounding chain and set the hole clapboard in the tank to reduce static electricity.</p>

严禁与氧化剂等混装混运。Forbidden to transport or mix with antioxidant etc.

运输途中应防曝晒、雨淋，防高温。Prevent insolate, rain and heat in the course of transportation.

中途停留时应远离火种、热源、高温区。Be far away from fire, heat source and high temperature when stopover

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。The exhaust pipe of the car which is shipping the goods must be equipped with fire equipment, forbidden to load and unload with mechanical equipment and tools which is easy to produce sparks.

船运时，应与机舱、电源、火源等部位隔离。It should isolate in area such as thee engine room,power supply ,fire when shipping .

公路运输时要按规定路线行驶。 Drive according to regulations route on the road.

第十五部分：法规信息

Section Fifteen Reference laws

法规信息 《危险化学品安全管理条例》、《化学品分类、警示标签和警示性说明安全规范 易燃液体》，《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。

《Hazardous Chemicals Control Ordinance 》、《Chemical classification、warning label and warning instruction, safety norms, flammable liquids》、《The rule to use the chemical in workplace》（[1996]Labor Department announces, NO. 423）and so on, for the safe use, production, storage, transportation, loading and unloading, etc of the hazardous chemicals, the laws and regulations have provided relevant rules.

第十六部分：其他信息

Section Sixteen Other Information

填表时间: 2012.3.1

Time of Filling the Blank:

填表部门: 安保部、生产部

Part of Filling: Security Department 、 Product department

数据审核单位: Data Audit Department:	江苏工业学院 Changzhou University
修改说明: Modification Instruction:	无 None
其他信息: Other Informations:	如有新的标准或资料, 我公司将进行及时修改。 If there are any new standards or data, our company will modify in time.