



广州市新锦龙塑料助剂有限公司

GUANGZHOU XINJINLONG CHEMICAL ADDITIVES CO., LTD.



物质安全数据表

Material Safety Data Sheet

B / 3 版

The Edition of B / 3

第 1 部分 物质与供应商标识

Part 1 Chemical product and company identification

物质名称 Product name	环氧大豆油 Epoxidized Soybean Oil (ESO/ESBO)
推荐用途 Recommend application	主要应用于 PVC 塑料的增塑剂兼稳定剂, 广泛用于食品、药品包装材料, 人造革, 塑料薄膜, 儿童玩具, 电线电缆, 覆铜板, 涂料等。 Mainly works as PVC stabilizer and secondly PVC plasticizer. Widely used in packing material for food/medicine, artificial leather, plastic film, children's toys, cable & wires pellets, copper clad Laminate, inks etc.
生产商 Manufacturer	广州市新锦龙塑料助剂有限公司 Guangzhou Xinjinlong Chemical Additives Co., Ltd
监制商 Supervisor	广州市新锦龙实业有限公司 Guangzhou Xinjinlong industrial Co., Ltd
生产基地 Manufacturer's address	广东省广州市花都区新华街建设北路大华村大湖庄四号 No.4,Dahuzhuang, Dahua Village, Jianshe North Rd., Xinhua Street, Huadu District, Guangzhou, Guangdong, China
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第 2 部分 危害确认

Part 2 Hazard Identification

危险分类 Hazard classification	高闪点难燃液体，非危险化学品 High flash point and difficult-flammable liquid, non-hazardous chemical
侵入人体之途径 The way to contact human body	吸入、皮肤、眼睛、食入 Inhalation, Skin, Eye, Eat
人体危害及症状 The harms and symptoms to human body	皮肤长期接触会泛红，眼睛接触有轻微刺痛，大量误食对胃部产生刺激，甚至造成呕吐、腹泻 Skin may become red after long time contact, slight pricking pain happen after eye contact. A lot of wrong eating cause stomach irritation, and even cause vomiting, diarrhea.
环境影响 Environment effects	泄漏物对水质会造成轻微污染 The leakage may cause light water contamination.
物理及化学危险性 Physical and Chemical hazards	无毒性。 Non-toxic.

第 3 部分 成分的组成/信息

Part 3 Composition/Information on Ingredients

物质 material

混合物 mixture

通用名称 Common name	环氧大豆油 Epoxidized Soybean Oil
化学名称 Chemical name	环氧脂肪酸甘油酯 Epoxidized fatty acid glyceride
化学文摘社登记号 CAS No	8013-07-8
物质含量 Material content	≥99.7%



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<p>危害物质成分 Hazard material composition</p>	<p>经独立第三方检测机构的检测认可，符合欧盟第 1907/2006 号 REACH 法规，RoHS 指令 2002/95/EC 的重订指令 2011/65/EU 附录 II 的限值要求，2005/84/EC 指令以及 EN71Part3:1994（含修订版 A1:2000/AC2000）-八种元素的迁移量等等。</p> <p>Approved by independent third party testing institutions, complied with EU No.1907/2006 REACH and 2002/95/EC, 201165/EU, 2005/84/EC of RoHs, and EN71 part3: 1994.</p>
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第 4 部分 急救措施

Part 4 First-Aid Measures

<p>吸 入 Inhalation</p>	<p>立即将患者移至空气新鲜处；呼吸困难时，给氧，就医。</p> <p>Move victim to fresh air area; When breathing difficulty, give oxygen and seek medical treatment.</p>
<p>皮肤接触 Skin contact</p>	<p>先用肥皂清洗，后用大量清水冲刷干净。</p> <p>Wash with soap first and then a lot of water</p>
<p>眼睛接触 Eye contact</p>	<p>立即撑开上下眼皮，用流动清水冲洗 15 分钟以上，不适者就医。</p> <p>Open eyelids and wash with flowing water for more than 15 minutes. If not well, please seek medical treatment.</p>
<p>食 入 Ingestion</p>	<p>先漱口清洗口腔内环氧大豆油残液，再喝大量的水或牛奶稀释、催吐；若意识不清者，立即就医。</p> <p>Wash mouth first and drink a large amount of water or milk and induce vomiting. If unconscious, please seek medical treatment immediately.</p>
<p>对急救人员之防护 The protection measure for first-aid physicians</p>	<p>戴橡胶防护手套及护目眼镜；若皮肤沾到环氧大豆油，只需以肥皂和清水冲洗于净即可</p> <p>Wear rubber gloves and goggles. Use soap and water to clean if skin contact ESO</p>
<p>中毒急救措施 Poisoning emergency measures</p>	<p>不适用 N/A</p>



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## 第 5 部分 消防措施

### Part 5 Fire Fighting Measures

灭火剂或灭火方法 Extinguishing media	泡沫、二氧化碳或干粉灭火器、砂土均可。 Foam, CO <sub>2</sub> or dry powder fire extinguisher, sand all suitable.
灭火注意事项 Pay attention to fire extinction	不能用水灭火 Cannot use water for fire extinguishing
燃烧产物危害 Combustion hazard	CO <sub>2</sub> 、CO 或浓烟引起的中毒、窒息。 Poisoning or suffocating caused by the CO <sub>2</sub> , CO or heavy smoke
消防特殊防护设备 Fire special protective equipment	穿戴防毒面罩 Wear gas mask

## 第 6 部分 泄漏应急处理

### Part 6 Accident Release Measure

个人防护 Personal protection	应急人员应穿戴好工作服、橡胶手套、护目眼镜及橡胶水鞋，避免身体直接接触。 Emergency workers should wear work clothes, rubber gloves, goggles, and rubber shoes, etc. to avoid direct body contact.
环境污染防护 Measures for environmental protection	尽快切断泄漏源，以沙土等筑起临时防溢堤以阻止泄漏扩大，隔离污染区，防止污染水体。 Cut the source of leakage at once, and make temporary embankment by sand, rag, etc. to prevent the expansion of leakage, and Isolate the pollution area and prevent the water contamination.
清理方法 Clean-up and removal methods	大量泄漏物要用容器先收集一起，再作回收处理；小量泄漏物宜用破布、木糠吸干或类似方法处理。 If mass leakage, please collect the leakage in a container and then proceed recycling. If small leak, please use dry rag, sawdust to absorb the leakage or use other similar methods to deal with.

## 第 7 部分 操作处置与储存

### Part 7 Handling and Storage



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<p>操作处置 Precautions for safe handling</p>	<p>操作场所保持通风，远离火源，防止泄漏，经开封的环氧大豆油宜尽快用完，暂存要注意密封容器，做个体防护。</p> <p>Keep the operation places ventilate, keep fire away, and prevent leakage. Please use the ESO after unsealed as soon as possible. If temporary storage, please make sure it in an airtight container. While handling please take the personal protection measures as well.</p>
<p>储 存 Storage</p>	<p>储存于仓库内，避免日晒雨淋，容器要保持完好，避免铁锈、砂石、雨水等杂物混入。应与酸、碱等物质隔离存放。储存温度应低于 45℃，若温度降至约 15℃时，黏度明显增大；若温度在 10℃以下，则会呈现白色沉淀，甚至凝固，这是环氧大豆油的固有物理性质，并非出现质量问题，加热至 25~40℃即可溶解。本品储存期为 1 年。</p> <p>Should be stored in warehouse to avoid sunshine and rain, and keep the container in good status for avoiding sand, gravel, rust and other debris flying into, and keep away from acid, soda etc. The storage temperature must be less than 45℃, when the temperature is below 15℃, the viscosity will be increased obviously. If the temperature is below 5℃, it may transform to be muddy, creamed and even solid, this is the physical characteristic of ESO itself, not because of its quality problem, and it will recover while heating to 25℃ ~ 40℃ and not affect its function. Normally the storage life for ESO is 1 year.</p>

## 第 8 部分 接触控制/个人防护

### Part 8 Exposure Control and Personal Protection

<p>工程控制 Engineering control</p>	<p>生产过程尽量密闭 To keep close while production process</p>
<p>生物指标 Biological indicators</p>	<p>不适用 N/A</p>
<p>呼吸防护 Respiratory protection</p>	<p>不适用 N/A</p>
<p>手部防护 Hand protection</p>	<p>橡胶或乳胶手套 General rubber gloves</p>



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眼睛防护 Eye protection	普通安全眼镜 Goggles
身体防护 body protection	一般工作服 General working clothes
卫生措施 Health measures	工作现场禁止吸烟，工作后应洗手，沾到环氧大豆油的衣物应及时清洗干净。 Smoking is prohibited in the workplace, quickly wash your hand after working, and clean polluted clothes on time.

## 第9部分 物理化学性质

## Part 9 Physical and chemical properties

外观 Appearance	浅黄色至无色透明油状液体 Light yellow and or transparent liquid oil	气味 Odor	轻微豆油味 Slight soybean oil smell
凝固点 Freezing point	-10~5℃	沸点 Boiling point	150℃ (0.5kPa,伴有分解) (with decomposition)
闪点 Flash point	≥280℃ (开口杯法) (open cup)	爆炸极限 Upper explosion limits	不适用 N/A
着火点 Kindling point	310℃	蒸汽压 Evaporation rate	不适用 N/A
密度 Density	0.982~1.002	水溶性 Solubility	0.01%(20℃)
粘度 Viscosity	325mPa·S(25℃)	折光率 Refraction	1.472(25℃)
溶解性 Dissolubility	可溶于脂肪烃、芳香烃、酯类、酮类、高级醇等有机溶剂，微溶于乙醇，难溶于水。 Soluble in aliphatic hydrocarbons, aromatic hydrocarbons, ketones, butanol, higher alcohols and other organic solvents, slightly soluble in ethanol, but hardly soluble in water.		



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第 10 部分 稳定性和反应性

Part 10 Stability and Reactivity

稳定性 Chemical stability	良 Good
危险反应 Possibility of hazardous reactions	不适用 N/A
避免状况 Conditions to avoid	与酸、碱、水、灰尘的接触 To contact with acid, alkali, water and dust
危害分解物 Hazardous decomposition products	不适用 N/A

第 11 部分 毒理学信息

Part 11 Toxicology Information

急性毒性 Acute toxicity	无毒级 (测试标准 GB15193.3-2003) Non-toxic grade (Test standard GB15193.3-2003)
致癌性 Carcinogenicity	不适用 N/A
致敏感性 Skin sensitization	不适用 N/A
生殖毒性 Germ cell mutagenicity	不适用 N/A
慢毒性或长期毒性 Chronic toxicity or long toxicity	不适用 N/A

第 12 部分 生态学信息

Part 12 Effects on the Environment

生态毒性 Bionomy toxicity	不适用 N/A
迁移性 Migratory	无资料 No data
持久性和降解性 Persistence and degradability	完全生物降解 Completely biodegradable



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生物累积的潜在可能性 The latent possibility of bioaccumulation	无资料 No data
其他不利影响 Other adverse effects	对水质会造成轻微污染，产生悬浮物，化学需氧量升高，色度降低。 Cause the slight pollution to water; Engender suspended matter, increase chemical oxygen and reduce the chromaticity

第 13 部分 废弃处置意见

Part 13 Disposal Considerations

废弃处置意见 The disposal methods and precautions	参阅国家和地方有关法规处置。 Consult relevant country or regional laws and regulations.
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第 14 部分 运输信息

Part 14 transport information

联合国货物编号 UN Number	不适用 N/A
联合国危险性分类 UN Hazard classification	不适用 N/A
包装方法 Packing	铁桶、塑胶桶、液袋、槽罐车 Iron drum/PE drum, IBC, Flexitank, Tanker
包装规格 packing specifications	200kg、1000kg、18t/24t、散水 200kg、1000kg、18t/24t、Bulk packing
海洋污染物 Marine pollutant	不适用 N/A
运输方式 Transport hazard classes	该物品不属于 1~9 类危险品，适合于铁路、航空、海运、公路运输，可按普通货物条件办理。 This product doesn't belong to 1~9 type dangerous goods; It can be transported by railway, air, sea and highway as common goods.

第 15 部分 监管信息

Part 15 Regulatory Information

法规信息 Regulatory information	《中华人民共和国安全生产法》 The safety production law of People's Republic of China
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鉴定依据 Criteria	(1) 联合国《关于危险货物运输的建议书》The United Nations the proposal for the transportation of dangerous goods" (2) 国际民航组织《危险物品航空安全运输技术导则》(ICAO TI 导则) (3) 国际航空运输协会《危险品规则》(IATA DGR) (4) 国际海事组织《国际海运危险货物规则》(IMDG Code) (5) 联合国《化学品分类及标记全球协调制度》(GHS) (6) 中华人民共和国国家标准 GB12268-2012《危险物品名表》、TB/T2688-1996《铁路危险货物分类试验方法》及 GB/T261-2008 等
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第 16 部分 其他信息

Part 16 Other information

参考资料 References	(1) 《化学品安全技术说明书 内容和项目顺序》，GB/T 16483-2008 < Safety data sheet for chemical products-Content and order of sections>, GB/T 16483-2008 (2) 国际标准 (ISO 11014-1:1994 年-16 个强制章节) International standard (ISO 11014-1:1994—16 mandatory part) (3) 加拿大 WHMIS (Workplace Hazardous Materials Information System) 要求 Canada WHMIS (Workplace Hazardous Materials Information System) Requirement (4) 美国 OSHA (Occupational Safety and Health Administration) 要求标准 the United States (U.S.) OSHA (Occupational Safety and Health Administration) Requirement standard (5) 欧洲相关标准 2001/58/EC、1999/45/EC、1967/548/EEC - 16 个强制章节, REACH 法规, SDS The regulation in Europe 2001/58/EC、1999/45/EC、1967/548/EEC - 16 mandatory part, REACH regulation, SDS		
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