

1. 物品与厂商资料 Identification Of The Substance / Preparation And Company:

物品名称 Product Information: 3104					
物品编号 Product Number:					
制造商名称、地址及电话 Manufacturer Name, Address, Phone: 制造商: 广东合力化工科技有限公司 Manufacturer: Guangdong Heley Chemical Technology Co., Ltd. 地址: 广东省云浮市郁南县大湾镇郁南产业转移工业园 Address: Transfer Industrial Park Dawan Town, Yunan County, Yunfu, Guangdong China TEL: +86-760-86608688					
紧急联络电话 Emergency Phone: +86-760-86608688					
制窗体位: Safety data Producer:	名称 Name: 技术中心 Technical Center 地址/电话: 广东省云浮市郁南县大湾镇郁南产业转移工业园, +86-760-86608688 Address / Phone: Transfer Industrial Park Dawan Town, Yunan County, Yunfu, Guangdong China, +86-760-86608688				
制表人 Lister:	梁进杰	审核 Assessor:	刘信强	制表日期 Issue Date	2020年3月 Mar., 2020
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2. 危害辨识数据 Hazard Identification:

物品危害分类 Product Hazard Class	易燃液体第 2 类 Flammable liquid, Category 2 急毒性物质第 4 类 Acute toxicity substance, category 4 腐蚀/刺激皮肤物质第 3 类 Corrode / irritate skin substance, Category 3 严重眼睛损伤/刺激眼睛物质第 2A 类 Serious eye damage / eye irritation substance, category 2A 特异性靶器官系统毒性 (重复接触) 第 2 类 Specific target organ toxicity (repeated exposure), Category 2
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物质安全数据表

Material Safety Data Sheet

象形图 Pictogram	火焰 Flame 健康危害 Health hazard 刺激物质 Irritate skin material	
警示语 Signal Word	危險 Danger	
主要危害物质 Main Hazard Components	丁酮 Methyl ethyl ketone 醋酸甲酯 Methyl acetate 乙酸乙酯 Ethyl acetate	
危害警告信息 Warning For Hazard	1. 高度易燃液体和蒸气 Highly flammable liquid and vapor. 2. 吞咽或吸入有害 Harmful if swallowed or inhaled. 3. 造成轻微皮肤刺激 Causes mild skin irritation. 4. 造成严重眼刺激 Causes serious eye irritation. 5. 长期或重复接触可能会对器官造成伤害 Long-term or repeated exposure will cause damage to organs.	
危害防范措施 Prevention For Hazard	1. 远离火源，禁止吸烟 Keep away from fire sources. No smoking. 2. 操作时需通风良好，不用时将容器盖紧 Operation in well-ventilated area, closed up the container after using. 3. 按要求佩戴防护口罩和手套，操作后彻底清洗 Wear respirator and gloves, cleaning completely after operation. 4. 禁止废弃物排入环境 Waste must not dispose into the environment.	
主要症状 Major State	1. 在浓度为 200ppm 的环境下 8 小时，会引起疲劳、虚弱和头昏目眩； 200ppm for 8 hours may result in fatigue, weakness and dizziness. 2. 在浓度为 600ppm 的环境下 8 小时，会引起兴奋、头痛、头晕和恶心； 600ppm for 8 hours may result in excitation, headache, dizziness and nausea. 3. 如果接触到眼睛会有刺激感，但 48 小时后会恢复。 If contact with eyes may cause irritation but will recover in 48 hours.	

3. 成分辨识资料 Composition / Information On Ingredients:

混合物 Mixture:

化学性质 Chemical Character:			
物质成分 Components	化学文摘登记号码 CAS No.	含量 (成分百分比) % Content (Percentage)	NFPA 危害等级 NFPA Hazard Rating
丁酮 Methyl ethyl ketone	78-93-3	15-25	H: 1 / F: 3 / R: 0
乙酸乙酯 Ethyl acetate	141-78-6	30-35	H: 1 / F: 3 / R: 0
醋酸甲酯 Methyl acetate	79-20-9	45-55	H: 1 / F: 3 / R: 0

* H: 健康 Health F: 火灾 Fire R: 反应 Reactivity

4. 急救措施 First Aid Measures:

不同暴露途径之急救方法 Emergency And First Aid Procedures:

- 吸入：移至空气清新处，若呼吸停止，应进行人工呼吸，保持温暖，尽速送医院治疗。

Inhalation: Remove to well-ventilated area. If breathing is difficult, supply artificial respiration. If not breathing, institute CPR and get medical advice.

- 皮肤接触：用肥皂或温和的清洁剂及水清洗，去除污染衣物，若刺激仍在，应立即送医。

Skin Contact: Remove contaminated clothing immediately. Flush the contaminated skin with soap and water. Get medical attention.

- 眼睛接触：用大量清水冲洗，偶尔翻开眼睑，若刺激仍在，应立即送医。

Eye Contact: Immediately flush with water. Get medical attention.

- 食入：用水漱口，饮足量温水，不要催吐，应立即送医。

Ingestion: Do not induce vomiting. Seek urgent medical advice.

最重要症状及危害效应 Major Disease And Harm Effect: -

对急救人员之防护：穿戴供压式或正压式全面自携式呼吸器。

First-Aid Personal Protection: Wear a respirator and protective uniform.

对医师之提示 Prompt To Doctor: -

5. 灭火措施 Fire Fighting Measure:

适用灭火剂：二氧化碳、化学干粉、泡沫灭火器。

Suitable Extinguishing Media: Carbon dioxide, Dry chemical, Foam.

灭火时可能遭遇之特殊危害：产生一氧化碳。

Special Exposure Hazards: Formation of carbon monoxide.

特殊灭火程序 Special Extinguishing Procedure:

水并非适合的灭火媒介，但可以用水喷射着火的容器以降温。

Water is not preferable extinguishing medium, but water spray should be used to cool.

fire-exposed containers.

撤退人员至安全地方。

Evacuate personal to safe area.

在没有危险的情况下，截断可燃的燃料。

Shut off fuel to fire if possible to do so without hazard.

安置人员远离火场并处于逆风处。

Keep personnel removed from and upwind of fire.

消防人员之特殊防护设备:穿戴防毒面具和防火衣物。

Special Protective Equipment: Wear respiratory protection equipment and fireproof clothes.

6. 泄漏处理方法 Accidental Release Measures:

个人应注意事项 Personal Protection:

撤退不必要的人员。

Evacuate non essential personnel.

穿戴供压式或正压式全面自携式呼吸器。

Keep people without protective equipment away.

环境注意事项：清除所有易燃物品，保持泄漏地区的通风和移开热源及火源。

Environmental Protection: Eliminate all sources of ignition and ventilate the area.

清理方法：尽可能回收或用沙子、锯屑等吸收外泄物，并避免流入下水道以免阻塞。

Methods For Cleaning Up: Absorb the spilt liquid with tissue paper or sand, or collect it back for reuse. Prevent entry into the sewage system, risk of blockage due to polymer deposits.

7. 安全处置与储存方法 Handling And Storage:

处置 Handling:

关掉所有火种及电力（火花及热力）点火装置及其它正在使用的点火器直至所有气雾散。

Shut off all gas pilot and electrical(spark or hot wire) igniters and other sources of ignition during use and until all vapors(odors) are gone.

只在通风良好的场所使用。

Use only in the well-ventilated areas.

在作业场所装设紧急淋浴及洗眼设备。

Make available in the work area emergency shower and eyes wash.

避免接触皮肤和眼睛。

Avoid contact with skin or eyes.

储存: 存储于阴凉、干燥、通风好的地区（5-40°C），远离火源、热源、氧化剂。

Storage: Store in a cool, dry, ventilated area and make sure the temperature is between 5-40°C.

Keep away from fire, heat sources and oxidant.

8. 暴露预防措施 Exposure Control / Personal Protection:

工程控制 Engineering Control:

安装排气系统，以保持空气中的浓度在暴露限制内。

Use local exhaust ventilation etc. to keep air-born concentration below exposure limit.

控制参数 Control Factor

物质 Substances	八小时日时量平均容许浓度 TWA(PPM)	短时间时量平均容许浓度 STEL(PPM)	最高容许浓度 CEILING(PPM)
丁酮 Methyl ethyl ketone	200	300	-
乙酸乙酯 Ethyl acetate	400	500	-
醋酸甲酯 Methyl acetate	200	250	-

生物指标 Biotic Index

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物质 Substances	LD ₅₀ (mg/kg)	LC ₅₀
乙酸乙酯 Ethyl acetate	5620	5760 mg/m ³ /8hrs.
丁酮 Methyl ethyl ketone	3400	23520 mg/m ³ /8hrs.
醋酸甲酯 Methyl acetate	5450	-

个人防护设备 Personal Protection Equipment:

- 呼吸防护：戴防护口罩
- Respiratory Protection: Wear a air-supplied respirator.
- 手部防护：戴手套
- Hand Protection: Wear gloves.
- 眼睛防护：戴护目镜
- Eye Protection: Wear goggles.
- 皮肤及身体防护：穿防护衣
- Skin & Body Protection: Wear protective clothing.

卫生措施：遵循一般防护措施，衣物被污染应即更换，工作后洗净双手。

Hygiene Procedures: Observe the common precautionary measures, contaminated clothes must be changes immediately. Wash hands after work is completed.

9. 物理及化学性质 Physical And Chemical Properties / Characteristics:

物质状态：粘液 Appearance: Viscous Liquid	形状：液体 Form: Liquid
颜色：透明 Color: Transparenet	气味：刺激气味 Odor: Irritation odor
PH 值： - PH value: -	沸点/沸点范围： 57-79°C Boiling Point / Boiling Range: 57-79°C
熔点： - Melting Point: -	易燃性（固体、气体）： - Flammability(Solid, gas): -

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分解温度: - Decomposition Temperature: -	闪火点: -10 °C Flash Point: -10 °C 测试方法: 闭杯 Test Method: Close Cup
自燃温度: 404°C Ignition Temperature: 404°C	爆炸界限: 1.7-16.0% Exposure Limits: 1.7-16.0%
蒸气密度 > 空气 Vapor Density > air	饱和蒸气压: mmHg Vapor Pressure: mmHg
相对密度(水=1) Relative Gravity: g/ml	溶解度: 不溶于水 Solubility In Water: Insoluble
嗅觉阈值 Odor Threshold: -	挥发速率 Evaporation Rate: -
辛醇/水分配系数: - Partition Coefficient(n-octanol/water, log kow): -	

10. 安定性及反应性 Stability And Reactivity:

安定性: 正常情况下安定 Stability: Stable.
特殊状况下可能之危害反应 Special Conditions Of Hazardous Reaction:
应避免之状况: 远离火源。 Conditions To Avoid: Keep away from flame.
应避免之物质: 强氧化剂 Incompatibility: Strong oxidizer.
危害分解物: 着火时释放出有毒蒸汽和气体。 Hazardous Decomposition Products: When ignited produce toxic vapor and gas.

11. 毒性资料 Toxicological Information:

丁酮 Methyl Ethyl Ketone: <ul style="list-style-type: none"> ● 刺激资料: 皮肤-兔: 500 毫克/24 小时, 中度; 眼睛-兔: 80 毫克。 ● Irritation Data: Skin-rabbit: 500 mg/24 hrs, moderate; Eye-rabbit: 80 mg.

- 毒性资料：口服-大鼠 LD₅₀: 3400 毫克/公斤；皮肤-兔 LD₅₀: 6480 毫克/公斤；吸入-大鼠 LC₅₀: 23520 毫克/立方米, 8 小时。
- Toxicity Data: Oral-rat LD₅₀: 3400 mg/kg; Skin-rabbit LD₅₀: 6480 mg/kg; Inhalation-rat LC₅₀: 23520 mg/m³, 8 hrs.
- 伤害器官：中枢神经系统
- Target Organs: Central nervous system.

乙酸乙酯 Ethyl acetate:

- 刺激资料：眼睛-人：400 毫克。
- Irritation Data: Eye-human: 400 mg.
- 毒性资料：口服-大鼠 LD₅₀: 5620 毫克/公斤；口服-兔 LD₅₀: 4940 毫克/公斤；吸入-大鼠 LC₅₀: 5760 毫克/立方米, 8 小时。
- Toxicity Data: Oral-rat LD₅₀: 5620 mg/kg; Oral-rabbit LD₅₀: 4940 mg/kg; Inhalation-rat LC₅₀: 5760 mg/m³, 8hrs.
- 伤害器官：中枢神经系统
- Target Organs: Central nervous system.

急毒性 Acute Toxicity:

吸入：可能引致呼吸系统不适，咳嗽。过久或重复吸入可引致过敏。

INHALATION: May irritation to respiratory tract. Exposure to high concentrations may result in cough. Prolonged or repeated inhalation may cause allergy.

皮肤接触：对皮肤产生刺激。

SKIN: May irritate skin.

眼睛接触：对眼睛产生刺激。

EYES: May irritate eyes.

吞食：引起刺激，无力、头痛、头晕。

INGESTION: May cause irritation, weakness and headache, dizziness.

局部效应：不详

Local Effects: N/A

致敏感性：不详

Sensitive: N/A

慢毒性或长期毒性：神经系统障碍，迟缓

Chronic: Nervous breakdown.

特殊效应：无

Exception Effect: No

12. 生态资料 Ecological Information:

生态毒性 Ecotoxicity:

可能之环境影响/环境流布：污染水源，勿排入河川、沟渠或地表。

Possibility Of Environmental Impact / Move: Hazardous to water. Must not enter the waters, drains or ground.

持久性及降解性 Persistence And Degradation:

生物降解：可被生物降解。

Biodegradation: Biodegradable.

水解：因水解发生的变化预期不会很明显。

Hydrolysis: Transformation due to hydrolysis is not expected to be significant.

光解：暴露在阳光时变化预期不会很明显。

Photolysis: Transformation due to photolysis is not expected to be significant.

空气氧化：因大气氧化引起的变化预期不会很明显。

Atmospheric Oxidation: Transformation due to atmospheric oxidation is not expected to be significant.

生物积累潜力：生物蓄积可能性低。

Bioaccumulative Potential: Potential to bioaccumulate is low.

在土壤中的流动性：被认为可停留在水中和迁移至土壤中。

Mobility In Soil: Expected to remain in water or migrate to the soil.

13. 废弃处置方法 Disposal Information:

废弃物性质 Property of waste:

危险废物 Dangerous waste

工业固体废物 Industrial solid waste

废弃处置方法：一般废弃物收集后可于焚化炉中焚化。废弃物之丢弃，运输等过程应遵照

环保局、交通局或地方机关之法律规章。

Disposal Information: Discard to combustion room for atomization observing local regulations.

14. 运送资料 Transport Information:

联合国编号 The United Nations Number(UN-No.): 1133
联合国运输名称: 易燃液体 The United Nations Shipping Name: Flammable liquid
国际运送规定 International Transport Regulation: 陆路 LAND: RID/ADR Class 3 海运 SEA: IMDG 代号 code Class 3 空运 AIR: ICAO-TI/IATA-DGR Class 3
包装类别 Packaging Group: PGIII
国内运送规定 Internal Transport Regulation: -
特殊运送及注意事项: 远离食品、酸及碱, 并放置于 5-40°C。 Special Transport Way And Note: Keep away from foodstuffs, acids and alkalis. Put between 5°C and 40°C.

15. 法规资料 Regulation Information:

适用法规 Apply Regulation: 遵照所在国家所有联邦, 洲及当地条例。 Follow all federal, state and local regulations in your country. 确保此物料与联邦政府要求一致, 并确保符合当地条例。 Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. 其它数据 Other Information:

参考文献 Reference:	本产品安全技术说明书根据联合国《全球化学品统一分类和卷标制度 (GHS) 》的实施要求作了相应更新。 This safety data sheet is revised according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
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