CMA 200000124375

杭州海关技术中心
国家危险化学品检测重点实验室（浙江）

CNAS 中国认可 检测 TESTING CNASL0354

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正本/ORIGIN

编号：TCH22011242
No：TCH22011242
日期：2022-08-09
Date：2022-08-09

ZAIQ-RF(HH)-01-19

Safety Data Sheet

Applicant name：HANGZHOU ZANYU OLEO-TECHNOLOGY CO., LTD.

Product Name: CAPRYLIC ACID

Edit date: 2022-08-09

Edit institution: Technology Center of Hangzhou Customs District

Approver：

杭州海关技术中心
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声　明

DECLARATION

1.本报告中检测结果仅对样品负责。

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

2.本报告无授权人签字、未加盖本机构报告专用章无效。

This report is invalid without authorized signature or the stamp of this organization.

3.对本报告中检测数据如有异议，请在收到报告后十五天内提出复测申请（部分特殊项目不能复测）。复测以原样为准，复测维持原结论时，由申请方承担复测费。

If there is any dissidence to the test data, the entrusting party shall apply for retesting within 15 days upon receiving this report (Some special item can not be retested).The former tested samples will be used as the retested ones. If the retest results are the same as the former ones, the retest fee will be paid by the entrusting party.

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。

This report shall be used in integrity. This organization will not be responsible for any misleading caused by the content of this report.

1. Identification of substance

Product Name	CAPRYLIC ACID
Other Name	None
Chemical Name	None
Recommended Use	AUXILIARIES AND ADDITIVES: AS ANTITRUST, CORROSIVE INHIBITANT, DEFOAMER. LUBRICANT ADDITIVE, VISCOSITY REGULAR AND HIGH MOLECULE
Manufacturer	HANGZHOU ZANYU OLEO-TECHNOLOGY CO., LTD.
Address	NO.1188, JINGBA ROAD, LINJIANG INDUSTRIAL ZONE, XIAOSHAN, HANGZHOU, CHINA /310052
Phone Number	+86-571-89969736
Fax Number	None
WEB or E-mail	None
Emergency Phone Number	+86-571-82900617 or call your nearest poison control centre

2. Hazards identification

GHS classification	Skin corrosion/irritation 1C Serious eye damage/eye irritation 1 Hazardous to the aquatic environment, long-term hazard 3
GHS Pictograms	
Signal words	Danger
Hazard statements	H314:Causes severe skin burns and eye damage H318:Causes serious eye damage H412:Harmful to aquatic life with long lasting effects
Precautionary Statement Prevention	P260:Do not breathe dust/fume/gas/mist/vapours/spray. P264:Wash hands thoroughly after handling. P264+P265:Wash hands [and...] thoroughly after handing. Do not touch eyes. P273:Avoid release to the environment. P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement Response	P301+P330+P331:IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P361+P354:IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P354+P338:IF IN EYES:Immediately rinse with water

	for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316:Get emergency medical help immediately. P317:Get medical help. P321:Specific treatment (see the supplemental first aid instruction). P363:Wash contaminated clothing before reuse
Precautionary Statement Storage	P405:Store locked up.
Precautionary Statement Disposal	P501:Dispose of contents/container in according with local regulation.
Other hazards which do not result in classification	Not available.

3. Composition/information on ingredients

√ **Substances**
☐ **Mixtures**

Component Information

Component	**CAS number**	**EINECS number**	**Mass(%)**
CAPRYLIC ACID	124-07-2	204-677-5	99%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	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
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	Give large quantities of water. Never give anything by mouth to an unconscious person. 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	Causes severe skin burns Causes serious eye damage.

5. Fire-fighting measures	
Suitable extinguishing agents	Foam, CO_2, dry chemical powder, sandy soil. Not water.
Special hazards caused by the material, its products of combustion or flue gases	Combustible, its powder or vapor mixed with air can form an explosive mixture. Can be released in case of fire: Carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.
Protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
6. Accidental release measures	
Person-related safety precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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	Evacuate personnel to safe area quickly, and isolate, strictly limit access. Cut off fire source. Recommend emergency personnel wear self-contained breathing apparatus and protective clothing. Don't contact the leak. Cut off the leak source as far as possible. If it is liquid, prevent from flowing into the restricted space such as sewer, drainage ditch and so on. Absorb in sand, vermiculite or other inert materials. If solid, collect in a dry, clean, covered container with a clean shovel.
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	
Handling	
Information for safe handling	Airtight operation, full ventilation. Prevent smoke or dust from leaking into the air in the workplace. Operators must undergo special training and strictly abide by the operating procedures. It is recommended that operators wear self-contained filter gas masks (half mask), chemical safety glasses, air permeable protective suits and chemical protective gloves. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Welding, cutting, etc. cannot be carried out before liquid and steam are removed. Avoid generating steam or dust. Avoid contact with oxidants. Equipped with corresponding

	varieties and quantities of fire-fighting equipment and leakage emergency treatment equipment. Empty containers may contain harmful residues.
Information about protection against explosions and fires	Move the container from the fire to an open place as much as possible. Spray water to keep the fire container cool until the end of the fire extinguishing. If the container in the fire has discoloration or produces sound from the safety relief device, it must be evacuated immediately.
STORAGE	
Requirements to be met by storerooms and containers	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used. Moisture-sensitive.
Information about storage in one common storage facility	Store in airtight at room temperature, avoid humid environment. Check whether the packing container is complete and sealed before transportation, ensure that the container does not leak, collapse, fall and damage in the process of transportation. Strictly forbid contact with oxidants, edible chemicals, etc. Avoid mixed shipment. Transport vehicles and ships must be thoroughly cleaned and disinfected, otherwise no other items may be shipped.
Further information about storage conditions	Equipped with emergency treatment equipment and suitable materials for leakage.

8. Exposure controls/personal protection

Limit Values for Exposure

Component	**CAS number**	**ACGIH TLV-TWA**	**ACGIH TLV-STEL**	**NIOSH REL-TWA**	**NIOSH REL-STEL**
CAPRYLIC ACID	124-07-2	N.E.	N.E.	N.E.	N.E.

Appropriate engineering controls	Airtight operation, pay attention to ventilation. Operation is as mechanized and automated as possible. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility.
General protective and hygienic measures	No smoking, eating and drinking in workplace. Shower and change clothes after work. Maintain good hygiene practices.
Personal protective equipment	Wear chemical safety goggles, wear protective clothing, recommended to wear rubber 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, 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	Liquid
Colour	Yellow
Odour	No data available
Melting point/freezing point	16.3 ℃
Boiling point or initial boiling point and boiling range	237 ℃
Flammability	Nonflammable
Lower and upper explosion limit/ flammability limit	Not explosive
Flash point	>100 ℃(Closed cup)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	3.5 (0.5 g/l)
Kinematic viscosity	No data available
Solubility	0.68 g/l (20℃, water)
Partition coefficient: n-octanol/water(log value)	3.05 (20 ℃)
Vapour pressure	1 hPa (78 ℃)
Density and/or relative density	0.91 g/cm^3 (25 ℃)
Relative vapour density (air=1)	4.98
Particle characteristics	Not applicable

10. Stability and reactivity	
Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. Incompatibles. The extreme temperatures and direct sunlight. Humid environment.
Incompatible materials	Avoid contact with base, oxidants and reductants, etc.
Hazardous decomposition products	May include carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.

11.Toxicological information
Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity	
CAPRYLIC ACID (CAS 124-07-2)	LD50 (Oral, rat) : 10,080 mg/kg LC50 (Inhalation, rat) : N/A LD50 (Dermal, rabbit) : >5,000 mg/kg
Skin corrosion/Irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
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	CAPRYLIC ACID (CAS 124-07-2) Test & Species 96 Hr LC50 fish: 22 mg/l 48 Hr EC50 Daphnia: > 21 mg/l 72 Hr EC50 Algae: 43.73 mg/l
Persistence and degradability	Rapid biodegradation
Bioaccumulative potential	Not available
Mobility in soil	Not available
Additional Information	Harmful to aquatic life with long lasting effects.

13. Disposal considerations

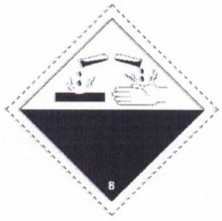
WASTE DISPOSAL INSTRUCTIONS

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 3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Caprylic acid)
Class/Division	Class 8 Corrosive Substances
Package Group	PG III
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 See A803 for Special Provisions.

15. Regulatory information

European/International Regulations	
OSHA:	Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).
EINECS Status:	CAPRYLIC ACID (CAS 124-07-2) is included in EINECS inventory.
EPA TSCA Status:	CAPRYLIC ACID (CAS 124-07-2) is included in TSCA public inventory.
Canadian DSL(Domestic Substances List):	CAPRYLIC ACID (CAS 124-07-2) is included in DSL.
HMIS(Hazardous Material Identification System Ratings):	Health: 3 Flammability: 1 Physical hazard: 0 Personal protection: H (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS(Canadian Workplace Hazardous Material Identification System Ratings)	E.
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	09.08.2022
Update and Revise	Fifth edition
Edit Standard	*Globally Harmonized System of Classification and Labelling of Chemicals* Part 1.5
Revised Institution	Technology Center of Hangzhou Customs District