

Safety Data Sheet

Product Name : Menthyl lactate

Prepared according to GB/T 17519 and GB/T 16483

Creation Date: 2018-06-12

Revision Date: 2018-06-12

SECTION 1 Identification of the chemical and supplier

Chemical name:

5-methyl-2-(1-methylethyl)cyclohexyl ester

Name of the company: Moxa Fire biotechnology Co., Ltd

Synonyms: Lactic acid menthyl ester

Address of the company : 5 / F, building C, No. 133, Buyue Road, Pukou District, Nanjing

CAS No. : 59259-38-0

EC No. : 261-678-3

Emergency phone number: 025-87866549

Telephone number: 025-87866549

Email address: MF@moxa-fire.com

Recommended Uses: It is mainly used for blending essence.

Restrictions on Use: No information available.

SECTION 2 Hazards identification

Emergency overview : No information available.

Hazard classification according to GHS

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic	Category 3
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Label elements

Hazard pictograms:

No symbol.

Signal word :

No signal word.

Hazard statements

H412	Harmful to aquatic life with long lasting effects.
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Precautionary statements

Prevention

P273	Avoid release to the environment.
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Response : none

Storage: none

Disposal

P501	Disposal of contents/containers in accordance with local/regional/national /international regulations.
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Hazard description

Physical and chemical hazards : No information available

Health hazards : No information available

Environmental hazards: Harmful to aquatic life with long lasting effects.

SECTION 3 Composition/information on ingredients

Component	Concentration/Range	CAS No.
Menthyl lactate	99.5%	59259-38-0

SECTION 4 First aid measures

Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin contact : Wash off with soap and plenty of water. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Advice for protecting the rescuer: Transfer the patient to a safe place. Consult a doctor. Show this chemical safety specification to the doctor at the scene.

Special note to the doctor: No information available

SECTION 5 Firefighting measures

Hazard characteristics: No information available.

Extinguishing method and media

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Unsuitable extinguishing media: Avoid the use of direct water to extinguish fire, direct water may lead to flammable liquid spatter, so that the fire spread.

Unsuitable annihilator: Water (may expand the disaster), but water can be used to keep the container cool in the fire field.

Fire precautions and measures

Advice for firefighters: Firefighters must wear gas masks, wear whole body fire suits and put out the fire in the upper wind. Move the container from the fire to the open as far as possible. Spray water to keep the fire container cool until the end of the fire. If the container in the fire field has changed color or produces sound from the safety pressure relief device, it must be evacuated immediately.

Fire extinguishing method: Put out the fire from the upper wind and choose the appropriate fire extinguishing method according to the surrounding environment. Unrelated personnel should be evacuated to safe places. Once a fire is around, water is sprinkled to keep the container cool. If safe, eliminate all fire sources.

SECTION 6 Accidental release measures measures

Personal precautions, protective equipment and emergency procedures

Wear self-contained positive pressure respirator and wear antistatic clothes. Cut off the fire source. Cut off the leakage source as much as possible. To prevent the inflow of sewage, flood channel limited space. Stay away from the spillover and leaks at the upper wind. Make sure that it is ventilated enough. The leaked area should be surrounded with a seat belt to control the entry of unrelated personnel.

Environmental precautions

Measures are taken to prevent further leaks and spillovers in conditions of safety. Do not let the product enter the sewer.

Methods and materials for containment and cleaning up

Evacuate the people from the polluted area to the safety zone and isolate them, and strictly restrict the entry and exit. Small leakage: adsorbed or absorbed by sand or other noncombustible materials. It can also be washed with a large amount of water, and the washing water is diluted and put into the wastewater system. A large leak: construct a barrier pit to contain. Cover with foam to reduce steam disaster. Transfer to a tank or a special collector with an explosion-proof pump to be recovered or transported to a waste disposal site.

Preventive measures for secondary hazards: Remove all fire sources. A fire extinguisher should be prepared in the event of a fire. Use fireproof tools and explosion-proof equipment.

SECTION 7 Handling and storage

Precautions for handling

The operator must undergo special training and strictly abide by the operating rules. Good ventilation is used to deal with it. Wear suitable protective equipment, wear chemical safety protective glasses, and wear rubber oil resistant gloves. Away from the heat source / spark / open fire / hot surface. To prohibit smoking. Measures should be taken to prevent electrostatic accumulation, such as control of flow rate and grounding device during filling. Use explosion-proof equipment. Wash your hands and face thoroughly after treatment.

If possible, use a closed system. If the steam or aerosols, local exhaust ventilation, the use of.

Avoid contact with skin, eyes and clothing.

Precautions for storage

Keep the container closed. It is stored in cool, dark and well ventilated. Stay away from fire and heat. It should be kept separately from the oxidizing agent and avoid the mixture. The use of explosion-proof lighting, ventilation facilities. The storage area should be equipped with leakage emergency treatment equipment and suitable collection materials.

SECTION 8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values: no data available

Biological limit values : No information available

Monitoring methods

Engineering controls : The location of the workplace is recommended to be separated from other workplace. Close operation to prevent leakage. Strengthen ventilation. Installation of automatic alarm devices and accident ventilation facilities. Setting up emergency evacuation channels. Set up red area warning line, warning sign and Chinese warning instructions, and set up communication alarm system. Provide safe shower and eye washing equipment.

Respiratory protection: In high concentration contact, the self - suction filter type mask (half mask) should be worn. When emergency situations are saved or evacuated, it is recommended to wear a respirator. According to local and government regulations, use governmental standards of respirators.

Eye protection: Wear chemical safety glasses when necessary. Wear a mask when necessary. Contact lenses can cause a special kind of damage; soft contact lenses may absorb and enrich the stimulants.

Skin and body protection: Wear safety shoes or safety boots (such as rubber materials). Anti permeable clothing, flame retardant and antistatic protective clothing, the type of protective equipment must be selected according to the concentration and content of the dangerous objects in the specific workplace.

Hand protection: Wear chemical protective gloves, eg rubber oil resistant gloves.

Other protection: No smoking at work. After work, shower and change clothes. Pay attention to personal hygiene.

SECTION 9 Physical and chemical properties

Appearance : white crystalline solid	
PH: No information available	Odor : Weak spring Huang Ju or Tobacco aroma
Initial boiling point and boiling range(°C): No information available	Melting point/freezing point(°C): 42.6°C
Vapor density(Air=1) : No information available	Odor threshold: No information available
Vapor pressure(kPa) : No information available	Relative density(Water=1): No information available
Evaporation rate: No information available	Viscosity: No information available
Flash point(°C) : 128°C	n-octanol/water partition coefficient : No information available
Decomposition temperature(°C) : No information available	Auto-ignition temperature(°C): No information available
Upper/lower explosive limits[% (v/v)]: No information available	
Solubility(mg/L) : No information available	Flammability(solid, gas) : No information available

SECTION 10 Stability and reactivity

Stability: Storage and use under normal ambient temperature, this product is stable.

Possibility of hazardous reactions : No information available

Conditions to avoid: Electrostatic discharge, heat, humidity, etc.

Incompatible materials: Strong oxides, strong acids, strong bases.

Decomposition products : No information available.

SECTION 11 Toxicological information

Acute toxicity

LD50(oral): No information available.

Carcinogenicity : No information available.

Skin corrosion/irritation: skin sensibility

Serious eye damage/irritation : No information available.

Skin sensitization: No information available.

Respiratory sensitization: No information available.

Germ cell mutagenicity : No information available.

Reproductive toxicity: No information available.

stot-single exposure: No information available.

stot-repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12 Ecological information

Toxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other deleterious effect: No information available.

SECTION 13 Disposal considerations

Waste treatment methods: Recycle the material as much as possible. If there is no suitable disposal or disposal equipment, contact the manufacturer about the recovery method, or contact the local or regional waste management department about the abandonment method. Burying in a licensed landfill or incineration at a licensed incineration field (after mixing with appropriate combustible materials).

Disposal considerations: Decontamination treatment of empty containers. Comply with all marking rules until the container is cleaned or destroyed.

SECTION 14 Transport information

UN number : No information available.

UN proper shipping name: No information available.

Transport hazard class: No information available.

Packing group: No information available.

Label : No information available.

Marine pollutant (Yes or no) : No

Precautions for transport:

Transportation vehicles should be equipped with the corresponding variety and quantity of fire-fighting equipment and leakage emergency treatment equipment. Prohibition of mixed transportation with oxidants. In transit, insolation, rain, and high temperature should be prevented. You should stay away from the fire when you stop in the middle of the road.

SECTION 15 Regulatory information

Chinese chemical inventory

Component	A	B	C	D	E	F
Menthyl lactate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Component	G	H	I	J	K	
Menthyl lactate	Not Listed	Not Listed	Listed	Not Listed	Not Listed	

【A】 Catalog of Hazardous Chemicals(2015 Edition), Notice 5th 2015, China State Administration of Work Safety.

【B】 Catalog of Priority Hazardous Chemicals for Environment Management, Notice 33th 2014, Ministry of Environmental Protection of PRC.

【C】List of Toxic Chemicals Restricted to be Imported/Exported in China (2018 Edition), Notice 74th 2017, Ministry of Environmental Protection of PRC.

【D】Catalog of Stupefacient and Psychotropic Substances(2013 Edition) Notice 230th 2013, China Food and Drug Administration.

【E】Catalog of Hazardous Chemicals for Priority Management (2013 Edition), China State Administration of Work Safety.

【F】Dangerous Chemicals Directory Used to Manufacture Exploder(2017 Edition), Notice 11th May. 2017, Ministry of Public Security of PRC.

【G】Catalog of Highly Toxic Chemicals, Notice 142th 2003, China Ministry of Health.

【H】National Directory of Hazardous wastes, Order no. 39 of the ministry of environmental protection, effective August 1st 2016

【I】List of existing Chemicals in China, Ministry of Environmental Protection notice No. 1 of 2013.

【J】List of highly toxic chemicals(2015 Edition), State Safety Supervision Bureau.

【K】Comprehensive Directory on Environmental Protection (2015 Edition), Ministry of Environmental Protection of PRC.

SECTION 16 Other information

Revision explanation

This Safety Data Sheet(SDS) was prepared according to standards of 《Safety data sheet for chemical products-content and order of sections》 and 《Guidance on the compilation of safety data sheet for chemical products》. The result of GHS classification according to 《Guidance on the Catalog of Hazardous Chemicals(2015 Edition)(trial)》 and series standards of 《Rules for classification and labelling of chemicals》.

Abbreviations and acronyms

CAS — Chemical Abstracts Service

PC-STEL — Short term exposure limit

DNEL — Derived No Effect Level

RPE — Respiratory Protective Equipment

LC₅₀—Lethal Concentration 50%

NOEC — No Observed Effect Concentration

PBT — Persistent, Bioaccumulative, Toxic

BCF—Bioconcentration factor(BCF)

CMR — International Maritime Dangerous Goods

IMDG—The United Nations

PC-TWA — Time Weighted Average

IARC — International Agency for Research on Cancer

PNEC — Predicted No Effect Concentration

LD₅₀—Lethal Dose 50%

EC₅₀—Effective Concentration 50%

POW — Partition coefficient Octanol: Water

vPvB — very Persistent, very Bioaccumulative

ACGIH— American Conference of Governmental Industrial Hygienists

UN — National fire protection association

ICAO/IATA — International Civil Aviation Organization/International Air Transportation Association

Disclaimer

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.