Safety Data Sheet

Ethyl lactate in liquor

Version: V2.0.0.1

Report No.: BWS0165-2016-MSDS-US

Creation Date: 2025/10/15

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

| Product identifier

Product Name	Ethyl lactate in liquor
Cat No.	BWS0165-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

Emergency phone number

Emergency phone number 010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Flammable liquids | Category 3

Label elements

Hazard pictograms



Signal word

Warning

| Hazard statements

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H226	Flammable liquid and vapour

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| Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
◆ Response	

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].		
D202 - D264 - D252	IF ON CIVIN (or bair). Take off immediately all contaminated elething. Dince		
	nozzles. Cool containers with flooding quantities of water until well after fire is out.		
	fire from maximum distance or use unmanned master stream devices or monitor		
	alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight		
P370+P378	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire:		

Storage

P403+P235	Store in a well-ventilated	place. Keep cool.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	Flammable liquids, its vapor and air mixture can form explosive mixture.
Health hazards	

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

| Substance/mixture

•	
	Mixture

Component	CAS No.	EC No.	Concentration (wt, %)

Ethyl lactate	97-64-3	202-598-0	0.066
1	1	/	99.934

4 First-aid measures

| Description of first aid measures

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General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.	
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.	
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.	
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.	
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.	

| Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire:
	alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight
	fire from maximum distance or use unmanned master stream devices or monitor
	nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	Development of hazardous combustion gases or vapor possible in the event of fire.
6	May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.

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3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Avoid breathing vapours and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 6 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 7 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
- 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
- In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
- 4 Collect absorbent material using a clean, non-sparking tool.
- 5 Cover with anti-solvent foam to reduce evaporation.
- 6 Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- 7 Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
- 8 Cut off the source of the leak as much as possible.
- 9 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 11 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 12 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
- 13 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.

6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

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1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethyl lactate	Denmark	10(provisional)	-	-	-
	Finland	5	25	10	49
	Sweden	5	25	10	50

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state, color, etc.)	clear or clear yellow liquid
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-18 (1 atm,Ethyl lactate)

Initial boiling point and boiling range(°C)	138.6 (1021.5 hPa,Ethyl lactate)
Flash point(Closed cup,°C)	55 (101.325 kPa,Ethyl lactate)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: 11.4 (Ethyl lactate); Lower limit: 1.5 (Ethyl lactate)
Vapor pressure	8.1kPa (20°C,Ethyl lactate)
Vapor density(Air = 1)	4.1 (Ethyl lactate)
Relative density(Water=1)	1.033 (20 °C,Ethyl lactate)
Solubility	100g/L (20 °C,Ethyl lactate)
n-octanol/water partition coefficient	0.7 (25 °C, pH: > 2 - < 8,Ethyl lactate)
Auto-ignition temperature(°C)	385 (Ethyl lactate)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)				
Ethyl lactate	8200mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available				

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Ethyl lactate	Not Listed	Not Listed	Not Listed
I	Not Listed	Not Listed	Not Listed

Others

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Skin corrosion/irritation	Based on available data, the classification criteria are not met					
Serious eye damage/irritation	Based on available data, the classification criteria are not met					
Skin sensitization	Based on available data, the classification criteria are not met					

Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants			
Ethyl lactate	LC ₅₀ :320mg/L (96h)(Fish)	EC ₅₀ : 622mg/L	ErC ₅₀ : 417.339mg/L			
		(48h)(Crustaceans)	(96h)(Algae)			

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Persistence and degradability No information available

Bioaccumulative potential

Bioaccumulative potential No information available

| Mobility in soil

Mobility in soil No information available

13 Disposal considerations

Disposal considerations

Disposal recommendations	and ignition source of fire. Return to supplier for recycling if possible. Refer to section waste chemicals and contaminated packaging.					
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot					
	regulation. Recommend the use of incineration disposal.					
Waste chemicals	Before disposal should refer to the relevant national and local laws and					

14 Transport information

Label and Mark

Transporting Label



IMDG-CODE

UN number	1192
UN proper shipping name	ETHYL LACTATE
Transport hazard class	3
Transport subsidiary hazard	None
class	

Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1192
UN proper shipping name	ETHYL LACTATE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	1192
UN proper shipping name	ETHYL LACTATE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
Ethyl lactate	1	V	√	√	√	√	V	1	√	V	√	√	√
I	×	×	×	×	×	×	×	×	×	×	×	×	×

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- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- 【G】 Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Ethyl lactate	×	×	×
1	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Ethyl lactate	×	×	×	√	√	√	√	×
I	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- 'x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/15
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.

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- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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.