



ETH0009  
CAS#: 97-64-3

ETHYL LACTATE  
BATCH NUMBER:  
4507106  
FEMA#: 2440

## CERTIFICATE OF ANALYSIS

### PRODUCT IDENTIFICATION

PRODUCT NAME	ETHYL LACTATE
MOLECULAR FORM	C5H10O3 118.13
MOLECULAR WT MELTING	
POINT (C) BOILING POINT	154 deg C
(C) FLASH POINT (F) SHELF	117 deg F
LIFE (DAYS)	730
BEST BEFORE DATE	May 2026

PHYSICAL SPECIFICATIONS	RANGE	RESULTS
APPEARANCE	CLEAR, COLORLESS LIQUID	
ODOR	CHARACTERISTIC ODOUR, CHEESY	
SPECIFIC GRAVITY (25C)	1.0290 to 1.0320	
REFRACTIVE INDEX (20C)	1.4100 to 1.4200	
SOLUBILITY	VERY SOLUBLE IN ALCOHOL, ETHER, CHLOROFORM, WATER/	

ANALYTICAL SPECIFICATIONS	RANGE	RESULTS
PURITY (BY GC)	98.0% MINIMUM	

OTHER SPECIFICATIONS	RANGE	RESULTS
ACID VALUE	1.0 MAXIMUM	

### STABILITY

STABLE UNDER NORMAL CONDITIONS

### STORAGE

STORE IN COOL DRY PLACE AWAY FROM HEAT AND SUNLIGHT.  
SHELF LIFE CONSIDERATIONS APPLY ONLY FOR ORIGINAL UNOPENED CONTAINERS



## DECLARATION of COMMON FOOD ALLERGENS in ACCORDANCE with the EU and USA LEGISLATION

We hereby certify that the below named ingredient contains the following allergic or sensitizing components as indicated on the chart below. It is also indicated if the named ingredient is produced on shared equipment with other allergens or sensitizers.

### ETHYL LACTATE

Allergic Food Source or it's Derivative	Does this Ingredient Contain any Foods Listed in Column 1	Provide the Specific Food (Ex. Soy, lecithin, peanut extract, fish gelatin, etc.)	Is this Ingredient on Shared Equipment with other Products Containing Foods from Column (1)
	Yes / No	Common or Unusual Name	Yes / No
Cereals containing gluten and products thereof	NO		NO
Soybeans and products thereof	NO		NO
Peanuts and products thereof	NO		NO
Tree nuts and products thereof	NO		NO
Celery and products thereof	NO		NO
Beef and products thereof	NO		NO
Chicken and products thereof	NO		NO
Pork and products thereof	NO		NO
Gelatin and products thereof	NO		NO

Date of issue: 03/05/2020

Apple and products thereof	NO		NO
Kiwi and products thereof	NO		NO
Orange and products thereof	NO		NO
Peach and products thereof	NO		NO
Banana and products thereof	NO		NO
Matsutake Mushroom and products thereof	NO		NO
Yam and products thereof	NO		NO
Mustard and products thereof	NO		NO
Sesame seeds and products thereof	NO		NO
Crustaceans, shellfish and products thereof	NO		NO
Mollusks and products thereof	NO		NO
Milk and products thereof	NO		NO
Eggs and products thereof	NO		NO
Fish and products thereof	NO		NO
Lupin and products thereof	NO		NO
Sulfur dioxide and sulfites at concentrations of more than 10ppm expressed as SO <sub>2</sub>	NO		NO
Tartrazine (Yellow #5)	NO		NO



## CMR DECLARATION

We hereby certify that:

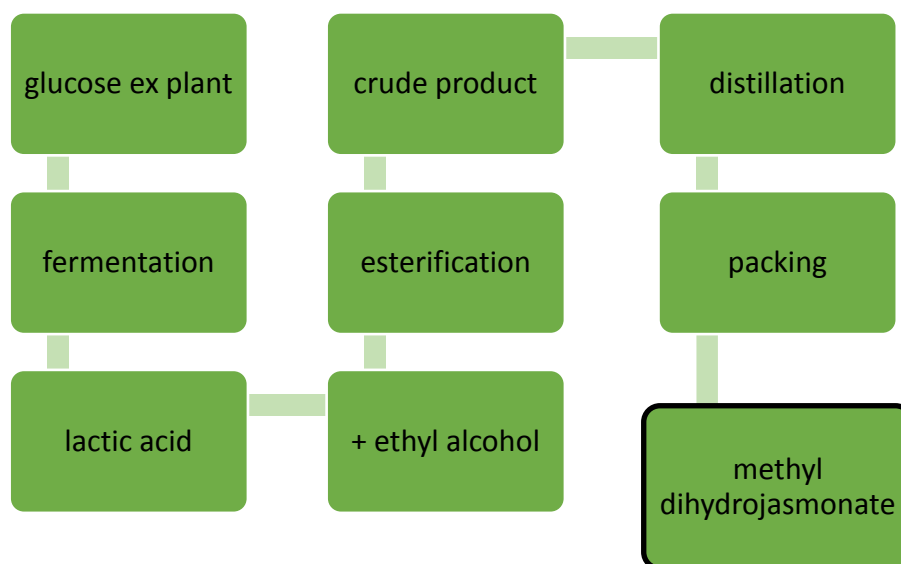
### ETHYL LACTATE

contains the following components listed as carcinogenic, mutagenic or toxic for reproduction in Annex VI  
Part 3 of Regulation (EC) 1272/2008

Substance	Content	Classification
None		

## PROCESS FLOW CHART

### ETHYL LACTATE



We hereby certifies that the products has no added antioxidants, diluents, colorants or preservatives.



## GMO STATEMENT

We hereby certifies that:

### ETHYL LACTATE

to the best of its knowledge does not derive from a genetically modified source (GMO) as specified in Regulation (EC) No 1829/2003 nor have GMO materials been used in its manufacture or as additives. It requires no special labelling or traceability with regards to GMO as outlined in Regulation (EC) No 1830/2003.



## IFRA CERTIFICATE

### ETHYL LACTATE

We hereby certify that the above material complies with the requirements of the INTERNATIONAL FRAGRANCE ASSOCIATION - IFRA-50th Amendment / published June 30th 2021) provided it is used in following application (class) at a maximum concentration level of:

IFRA category	Maximum level of use (%)
Class 1	Not restricted
Class 2	Not restricted
Class 3	Not restricted
Class 4	Not restricted
Class 5A	Not restricted
Class 5B	Not restricted
Class 5C	Not restricted
Class 5D	Not restricted
Class 6	Not restricted
Class 7A	Not restricted
Class 7B	Not restricted
Class 8	Not restricted
Class 9	Not restricted
Class 10A	Not restricted
Class 10B	Not restricted
Class 11A	Not restricted
Class 11B	Not restricted
Class 12	Not restricted

The above values were calculated based on the following IFRA restricted materials: <none contained>

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

It is the ultimate responsibility of our customer to ensure the safety of the final product by further testing if need be. Evaluation of the Fragrance ingredient was made according to the safety requirements contained in the relevant section of the IFRA Code of Practice.

IFRA category includes	IFRA category
Children's toys, Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured etc...) (****)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...), Body sprays (including body mist)	Class 2
Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer; Facial make up and foundation; Make-up remover for face and eyes; Nose pore strips; Wipes or refreshing tissues for face, neck, hands, body; Body and face paint (for children and adults); Facial masks for face and around the eyes	Class 3
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.); Fragranced bracelets; Ingredients of perfume kits and fragrance mixtures for cosmetic kits; Scent pads, foil packs; Scent strips for hydroalcoholic products	Class 4
Body creams, oils, lotions of all types; Foot care products (creams and powders); Insect repellent (intended to be applied to the skin); All powders and talc (excluding baby powders and talc)	Class 5A
Facial toner; Facial moisturizers and creams	Class 5B
Hand cream; Nail care products including cuticle creams, etc.	Class 5C
Baby cream/lotion, baby oil, baby powders and talc	Class 5D
Mouthwash, including breath sprays; Toothpaste; Toothpowder, strips, mouthwash tablets (****)	Class 6
Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes	Class 7A
Hair sprays of all types (pumps, aerosol sprays, etc.); Hair styling aids non sprays (mousse, gels, leave-on conditioners); Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes; Shampoo - Dry (waterless shampoo); Hair deodorizer	Class 7B
Intimate wipes; Tampons; Baby wipes; Toilet paper (wet)	Class 8
Bar Soap; Shampoo off all type; Cleanser for face (rinse off); Conditioner (rinse off); Liquid Soap; Body washes and shower gels of all types; Baby wash, bath, shampoo; Bath gels, foams, mousses, salts, oils and other products added to bathwater; Foot care products (feet are placed in a bath for soaking); Shaving creams of all types (stick, gels, foams, etc.); All depilatories (including facial) and waxes for mechanical hair removal; Shampoos for pets	Class 9
Hand wash laundry detergent (including concentrates); Laundry pre-treatment of all types (e.g. paste, sprays, sticks); Hand dishwashing detergent (including concentrates); Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.); Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates; Dry cleaning kits; Toilet seat wipes; Fabric softeners of all types including fabric softener sheets; Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics); Floor wax; Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc; Ironing water (Odorized distilled water)	Class 10A
Animal sprays – sprays applied to animals of all types; Air freshener sprays, manual, including aerosol and pump; Aerosol/spray insecticides	Class 10B
Feminine hygiene conventional pads, liners, interlabial pads; Diapers (baby and adult); Adult incontinence pant, pad; Toilet paper (dry);	Class 11A
Tights with moisturizers; Scented socks, gloves; Facial tissues (dry tissues); Napkins; Paper towels; Wheat bags; Facial masks (paper/protective) e.g. surgical masks not used as medical device; Fertilizers, solid (pellet or powder)	Class 11B
Candles of all types (including encased); Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods); Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals); Air delivery systems; Cat Litter; Cell phone cases; Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders); Fuels; Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays; Joss sticks or incense sticks; Dishwash detergent and deodorizers – for machine wash; Olfactive board games; Paints; Plastic articles (excluding toys); Scratch and sniff; Scent pack; Scent delivery system (using dry air technology); Shoe polishes; Rim blocks (Toilet)	Class 12

(\*\*\*\*) Fragrance materials for use in these applications need also FEMA-GRAS conformity.





## STATEMENT OF ORIGIN

We hereby certifies that:

**ETHYL LACTATE**

Originates from and is produced in CHINA



# Safety Data Sheet

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Product name** ETHYL  
LACTATE

**Issue date** 03-Jan-2017

**Revision date** 02-Oct-2019

**Version** 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

<i>Product name</i>	ETHYL LACTATE
<b>EC No.</b>	202-598-0
<b>CAS No</b>	97-64-3
<b>Chemical Name</b>	Ethyl 2-hydroxypropanoate
<b>Pure substance/mixture</b>	Substance
Contains Ethyl lactate	
<b>Formula</b>	C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>
<b>Molecular weight</b>	118.13

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Sold to the general public?</b>	No
<b>Recommended Use</b>	Industry Use

### 1.3. Details of the supplier of the safety data sheet

#### **Supplier**

Madar Corportion Limited  
19 - 20 Sandleheah Industrial Estate  
Fordingbridge  
SP6 1PA  
Tel: (+44) 01425 655 555

For further information, please contact

<b>Contact Point</b>	technical@madarcorporation.co.uk
<b>E-mail address</b>	

### 1.4. Emergency telephone number

Emergency telephone	CHEMTREC
---------------------	----------

Emergency telephone - +1-703-741-5970	
Europe	CCN# 17256

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Flammable liquids	Category 3 - (H226)

**2.2. Label Elements****Product identifier**

Contains Ethyl lactate

**Signal word**

Danger

**Hazard statements**

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H226 - Flammable liquid and vapor

**Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P370 + P380 + P375 + P378 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**2.3. Other Hazards****SECTION 3: Composition/information on ingredients****3.1 Substances****Chemical nature**

Aliphatic ester.

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ethyl lactate	Present	97-64-3	100	Flam. Liq. 3 (H226)(EFA) STOT SE 3 (H335)(EFA) Eye Dam. 1 (H318)(EFA)	No data available

Full text of H- and EUH-phrases: see section 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
<b>Skin contact</b>	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Use Dry chemical Carbon dioxide (CO<sub>2</sub>) Water spray (fog) Alcohol resistant foam

#### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire

### **5.2. Special hazards arising from the substance or mixture**

Flammable Keep product and empty container away from heat and sources of ignition Risk of ignition

**Hazardous combustion products** Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment as required.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

### **6.4. Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

#### **General hygiene considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

### **7.3. Specific end use(s)**

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Ethyl lactate 97-64-3	-	-	-	TWA: 5 ppm TWA: 25 mg/m <sup>3</sup> STEL: 10 ppm STEL: 49 mg/m <sup>3</sup>	-

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### **8.2. Exposure controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems  
Ensure adequate ventilation, especially in confined areas

#### **Personal Protective Equipment**

<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Hand protection</b>	Wear protective nitrile rubber gloves.
<b>Skin and Body Protection</b>	Suitable protective clothing. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Antistatic footwear. Gloves made of plastic or rubber.
<b>Respiratory protection</b>	Ensure adequate ventilation, especially in confined areas. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Clear	<b>Odor</b>	Characteristic Odor
<b>Color</b>	Colorless	<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		
Melting point / freezing point		
Boiling point / boiling range		
Flash Point	47 °C / 117 °F	
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limit in Air		
Upper flammability limit:		
Lower flammability limit:		
Vapor pressure		
Vapor Density		
Specific gravity	1.029 - 1.032	(25°C)
Water solubility		
solubility(ies)		
Partition coefficient		
Autoignition Temperature		
Decomposition temperature		
Kinematic viscosity		
Dynamic viscosity		
Explosive properties	Not an explosive	
Oxidizing properties	Not oxidising	

### 9.2. Other information

<b>Molecular weight</b>	118.13
<b>VOC content (%)</b>	100
<b>Density</b>	Not applicable
<b>Bulk Density</b>	Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	May be ignited by friction, heat, sparks or flames.

### 10.3. Possibility of hazardous reactions

#### Possibility of Hazardous Reactions

None under normal processing.

#### **10.4. Conditions to avoid**

Keep out of reach of children. Extremes of temperature and direct sunlight. Heat, flames and sparks.

#### **10.5. Incompatible materials**

No information available.

#### **10.6. Hazardous decomposition products**

None under normal use conditions.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

##### **Product Information**

Harmful if inhaled.

##### **Inhalation**

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

##### **Eye Contact**

Avoid contact with eyes. Risk of serious damage to eyes.

##### **Skin contact**

Avoid contact with skin.

##### **Ingestion**

No known hazard by swallowing.

100 % of the mixture consists of ingredient(s) of unknown toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl lactate	= 8200 mg/kg ( Rat ) > 2000 mg/kg ( Rat )	> 5 g/kg ( Rabbit ) > 5000 mg/kg ( Rat )	

**Skin corrosion/irritation** Not expected to cause skin irritation.

**Serious eye damage/eye irritation** Risk of serious damage to eyes.

**Sensitization** Not expected to cause skin sensitization.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards above the threshold value.

**STOT - single exposure** May cause disorder and damage to the. Respiratory system.

**STOT - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

## SECTION 12: Ecological information

### 12.1. Toxicity

100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

#### **Mobility in soil**

No information available

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Waste from Residues/Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging**

Do not reuse container. Improper disposal or reuse of this container may be dangerous and illegal.

## SECTION 14: Transport information

### IMDG

14.1 UN/ID no	1192
14.2 Proper Shipping Name	Ethyl lactate
14.3 Hazard Class	3
14.4 Packing group	III
14.5 Marine pollutant	Not applicable
Environmental hazard	No
14.6 Special Provisions	None
EmS-No	F-E, S-D
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC03

### RID

14.1 UN/ID no	1192
14.2 Proper Shipping Name	Ethyl lactate
14.3 Hazard Class	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special Provisions	None



**ADR**

14.1 UN/ID no	1192
14.2 Proper Shipping Name	Ethyl lactate
14.3 Hazard Class	3
Labels	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special Provisions	None
Classification code	F1
Tunnel restriction code	(D/E)

**ICAO (air)**

14.1 UN/ID no	1192
14.2 Proper Shipping Name	Ethyl lactate
14.3 Hazard Class	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special Provisions	None

**IATA**

14.1 UN/ID no	1192
14.2 Proper Shipping Name	Ethyl lactate
14.3 Hazard Class	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special Provisions	None
ERG Code	9L

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical Name	French RG number	Title
Ethyl lactate 97-64-3	RG 84	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorization and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**15.2. Chemical safety assessment**

No information available

## SECTION 16: Other information

**Full text of H-Statements referred to under section 3**

H226 - Flammable liquid and vapor  
H318 - Causes serious eye damage

H335 - May cause respiratory irritation

**Issue date** 03-Jan-2017

**Revision date** 02-Oct-2019

**Revision note** Not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

Classification and labeling according to the IFRA/IOFI Labeling Manual 2018. This material has not been tested or proven safe for inhalation. With this document, Phoenix Aromas & Essential Oils LLC only attests to the safety of the product when used in the appropriate and suitable fragrance/flavor industry application.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

**PRODUCT SPECIFICATION**
**PRODUCT IDENTIFICATION**

PRODUCT NAME	ETHYL LACTATE
MOLECULAR FORM	C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>
MOLECULAR WT	118.13
MELTING POINT (C)	
BOILING POINT (C)	154 deg C
FLASH POINT (F)	117 deg F
SHELF LIFE (DAYS)	730

PHYSICAL SPECIFICATIONS	RANGE	METHOD
APPEARANCE	CLEAR, COLORLESS LIQUID	VISUAL
ODOR	CHARACTERISTIC ODOUR, CHEESY	ORGANOLEPTIC
SPECIFIC GRAVITY (25C)	1.0290 to 1.0320	FCC METHOD
REFRACTIVE INDEX (20C)	1.4100 to 1.4200	FCC METHOD
SOLUBILITY	VERY SOLUBLE IN ALCOHOL, ETHER, CHLOROFORM, WATER/	FCC METHOD

ANALYTICAL SPECIFICATIONS	RANGE	METHOD
PURITY (BY GC)	98.0% MINIMUM	CHEM_20.M

OTHER SPECIFICATIONS	RANGE	METHOD
ACID VALUE	1.0 MAXIMUM	FCC METHOD

**STABILITY**

STABLE UNDER NORMAL CONDITIONS

**STORAGE**

STORE IN COOL DRY PLACE AWAY FROM HEAT AND SUNLIGHT.

SHELF LIFE CONSIDERATIONS APPLY ONLY FOR ORIGINAL UNOPENED CONTAINERS

*DatttRvtstd: 02/10/2019*



## DIET DECLARATION

We hereby certifies that:

# ETHYL LACTATE

To the best of our knowledge is suitable for:

	Yes	No
Ovo-lacto Vegetarians	✓	
Vegetarians	✓	
Vegans	✓	
Coeliacs	✓	
Kosher	✓	
Halal	✓ (Not certified)	
Organic		✓

Date of issue: 07/04/2022