



CERTIFICATE OF ANALYSIS

PRODUCT ETHYL ACETATE REACH

BATCH NUMBER 4532701

BEST BEFORE DATE February 2027

TEST	UNIT	RESULTS
APPEARANCE		CLEAR MOBILE LIQUID
COLOR		COLORLESS
ODOR		STRONG, PLEASANT, FRUITY, BRANDY
DENSITY 20	(g/ml)	0.900
REFRACTIVE IND.20		1.3720
GC ANALYSIS		PROFILE SIMILAR TO STANDARD
ASSAY	(% GC)	99.90



06 March 2023

FRAGRANCE ALLERGENS

Product name: ETHYL ACETATE

Ingredient	Total content (w/w)
Amyl cinnamic alcohol (CAS 101-85-9)	Not Detected
Amyl cinnamic aldehyde (CAS 122-40-7)	Not Detected
Anisyl alcohol (CAS 105-13-5)	Not Detected
Benzyl alcohol (CAS 100-51-6)	Not Detected
Benzyl benzoate (CAS 120-51-4)	Not Detected
Benzyl cinnamate (CAS 103-41-3)	Not Detected
Benzyl salicylate (CAS 118-58-1)	Not Detected
Cinnamic alcohol (CAS 104-54-1)	Not Detected
Cinnamic aldehyde (CAS 104-55-2)	Not Detected
Citral (CAS 5392-40-5)	Not Detected
Citronellol (CAS 106-22-9)	Not Detected
Coumarin (CAS 91-64-5)	Not Detected
Eugenol (CAS 97-53-0)	Not Detected
Farnesol (CAS 4602-84-0)	Not Detected
Geraniol (CAS 106-24-1)	Not Detected
Hexylcinnamic aldehyde (CAS 101-86-0)	Not Detected
Hydroxycitronellal (CAS 107-75-5)	Not Detected
Hydroxymethylpentylcyclohexene carboxaldehyde (Lylal) CAS 31906-04-4)	Not Detected
Isoeugenol (CAS 97-54-1)	Not Detected
D-Limonene (CAS 5989-27-5)	Not Detected
linalool (CAS 78-70-6)	Not Detected
2-methyl-3-(4-(1,1-dimethyl ethyl) phenyl)propanal (Lilial) CAS 80-54-6)	Not Detected
1-ethyl heptane carbonate (CAS 111-12-6)	Not Detected
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (CAS 127-51-5)	Not Detected
Usnea moss (Evernia furfuracea) (CAS 90028-67-4)	Not Detected
Usnea moss (Evernia prunastri)(CAS 90028-68-5)	Not Detected

Detection limit: 10 ppm

This list comprises references 45-67-78 and 80-92 in Annex III to Regulation (EC) 1223/2009 (the Cosmetics Regulation).

Our product contains the substance known as Lylal, which was withdrawn from Annex III on 23 August 2021.

Version date: 20 December 2005



06 March 2023

To whom it may concern

ALLERGENS CERTIFICATE

Product : ETHYL ACETATE

To our knowledge from the currently existing information in our files received from our suppliers, we certify that the above-mentioned product does not contain any of the following materials* :

- Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof
- Crustaceans and products thereof
- Eggs and products thereof
- Fish and products thereof
- Hazelnuts and products thereof
- Soybeans and products thereof
- Milk and products thereof (including lactose)
- Nuts (i.e. almonds (*Amygdalus communis* L.), hazelnuts (*Corylus avellana*), walnuts (*Juglans regia*), cashews (*Anacardium occidentale*), pecan nuts (*Carya illinoensis* (Wangenh.) K. Koch), Brazil nuts (*Bertholletia excelsa*), pistachio nuts (*Pistacia vera*), macadamia nuts and Queensland nuts (*Macadamia ternifolia*) and products thereof
- Celery and products thereof
- Mustard and products thereof
- Sesame seeds and products thereof
- Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/L expressed as SO₂
- Lupin and products thereof
- Molluscs and products thereof

*According to Regulation (EU) 1169/2011 of 25 October 2011 on the provision of food information to consumers.

The information contained herein is to the best of our knowledge reliable. However, it should be noted that it is the responsibility of the manufacturer of the material containing this flavouring ingredient to identify and comply with all relevant legal requirements.

This document is electronically generated and therefore it is not signed.



06 March 2023

CMR SUBSTANCES

Product **ETHYL ACETATE**

This information is about the content of substances classified as CMR (carcinogenic, mutagenic or reprotoxic) in the above-mentioned material, according to the current versions of the UN Global Harmonised System (GHS) and the EU Regulation 1272/2008 (the "CLP Regulation").

Substance name	CAS	CMR classification	% w/w
None to be considered			

The list contains those substances at or above 0.1 % considered as CMR (cat. 1, 2 or 3 and additional categories), either self-classified or under a harmonized classification.

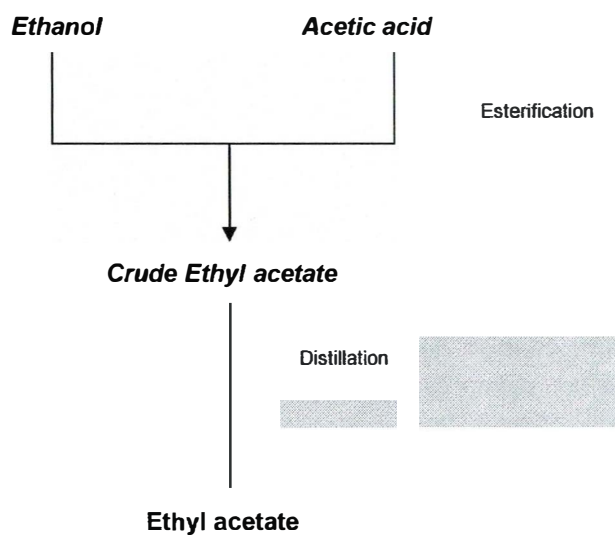
Please note that a given content of a CMR substance in the material does not necessarily trigger a CMR classification and that the threshold for such classification depends on the GHS national implementation.

The information contained herein is to the best of our knowledge reliable. However, it should be noted that it is the responsibility of the manufacturer of the material containing this ingredient to identify and comply with all relevant legal requirements.

This document is electronically generated and therefore it is not signed.

Flowchart of the Production Process

Product: ETHYL ACETATE



Information provided by our supplier(s) and/or according to literature data. ~



06/03/2023

To whom it may concern

G.M.O. CERTIFICATE

Product : ETHYL ACETATE

To our knowledge from the currently existing information in our files received from our suppliers, we certify that the above-mentioned product

- does not contain,
- does not consist of,
- is not derived from, and
- is not produced with the aid of

genetically modified organisms (GMO) or derivative ingredients. Therefore, it is exempt from the requirements of the EU Regulations 1829/2003/EC and 1830/2003/EC.

This document is electronically generated and therefo



06 March 2023

IFRA CONFORMITY CERTIFICATE

Product: **ETHYL ACETATE**

We certify that the above-mentioned product is in compliance with the Standards of the International Fragrance Association (IFRA) up to and including the 50th Amendment to the IFRA Standards (published June 2021), provided it is used in the following categories at a maximum concentration level of ⁽¹⁾:

Category 1	Not restricted	⁽²⁾	Category 7A	Not restricted
Category 2	Not restricted		Category 7B	Not restricted
Category 3	Not restricted		Category 8	Not restricted
Category 4	Not restricted		Category 9	Not restricted
Category 5A	Not restricted		Category 10A	Not restricted
Category 5B	Not restricted		Category 10B	Not restricted
Category 5C	Not restricted		Category 11A	Not restricted
Category 5D	Not restricted		Category 11B	Not restricted
Category 6	Not restricted	⁽²⁾	Category 12	Not restricted

⁽¹⁾ the concentration of a fragrance ingredient should not exceed the usual concentration of the fragrance compound in the finished product.

⁽²⁾ IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings in the countries of planned distribution and, where these are lacking, with the recommendations laid down in the Code of Practice of IOFI (International Organisation of the Flavour Industry).
Please note this certificate does not include food status conformity check. A separate document, which may be available depending on the product, is needed for such purpose.

Contains no substances restricted by IFRA standards and bears no IFRA specification.

This certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. It does not provide certification of a comprehensive safety assessment of all product constituents.

Version Date: 7 September 2021

ETHYL ACETATE

Revision date: 23-01-2023
Version: 4.0/CLP/EN

Print Date: 06-03-2023
Page: 1 / 5

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1. Identification of the substance/mixture

Product name: **ETHYL ACETATE**
Substance name: **ETHYL ACETATE**
Batch number: **141-78-6**
UN number: **205-500-4**
REACH Registration number: **01-2119475103-46**

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

Raw material for the manufacture of fragrances and/or flavourings.

1.2. Details of the supplier of the safety data sheet

Company: **Madar Corporation Limited**
Address: **19-20 Sandleheath Industrial Estate**
Fordingbridge
SP6 1PA

technical@madarcorporation.co.uk

1.3. Telephone number

01425 655 555

HAZARD IDENTIFICATION

2. Classification of the substance or mixture

Flammable liquid - Category 2 - H225

Irritant - Category 2 - H319

Acute oral toxicity following single exposure - Category 3 (narcotic effects) - H336

3. Label Elements

Pictograms:



Sentence Words:

4.1. Precautionary statements:

Prevent exposure may cause skin dryness or cracking.
Highly flammable liquid and vapour.
Causes eye irritation.
Drowsiness or dizziness.

4.2. Precautionary statements:

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Container tightly closed.
Avoiding dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

P303+P337+P333 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410 – Keep from light.

P501 – Dispose of contents and container according to local regulations.

5. Other hazards

Not containing any component that meets the criteria for PBT or vPvB according to Regulation (EC) 1907/2006, Annex XIII.
Not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

ETHYL ACETATE

Revision date: 23-01-2023
Version: 4.0/CLP/EN

Print Date: 06-03-2023
Page: 2 / 5

COMPOSITION/INFORMATION ON INGREDIENTS

3. Ingredients

ETHYL ACETATE
141-78-6
205-500-4

4. Hazardous constituents:

	% (w/w)	CAS No. EC No. Index No.	Classification according to Regulation 1272/2008	Specific Concentration Limit, M-factor, ATE, SVHC
ETHYL ACETATE	≥50	141-78-6 205-500-4 607-022-00-5(ATP 30)	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 (narc.) - H336	

See the full text of the hazard statements in section 16.

3. Mixtures

No mixtures

FIRST-AID MEASURES

4.1. Description of necessary first aid measures

Inhalation: Rinse mouth with water.
Obtain medical advice.
Keep at rest. Do not induce vomiting.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.
Remove person to fresh air and keep at rest.
Seek immediate medical advice.

On skin: Take off immediately all contaminated clothing.
Thoroughly wash affected skin with soap and water.
Seek medical attention if symptoms persist.

4.2. Important symptoms and effects, both acute and delayed

4.3. Information on any immediate medical attention and special treatment needed

No special treatment available

FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Use carbon dioxide, dry chemical powder or appropriate foam.
Extinguishers do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Not classified as a Dangerous Products of Combustion: Emits toxic fumes under fire conditions.

5.3. Advice for firefighters

High temperatures can lead to high pressures inside closed containers.
Evaporation of vapors that are created. Use appropriate respiratory protection.
Do not allow spillage of fire to be poured into drains or watercourses.
Fire-fighters should wear full protective breathing apparatus and protective clothing.

ACCIDENT

RELEASE MEASURES

6.1. General precautions, protective equipment and emergency procedures

Working areas. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.
Avoid vapor/spray. Avoid contact with skin and eyes. Information regarding personal protective measures: see section 8.

6.2. Environmental precautions

To prevent contamination of the environment, do not discharge into any drains, surface waters or groundwaters.

ETHYL ACETATE

Revision date: 23-01-2023

Version: 4.0/CLP/EN

Print Date: 06-03-2023

Page: 3 / 5

Spills and materials for containment and cleaning up

Use inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).
Empty containers using non-sparking tools and transport outdoors.
Eliminate all sources of ignition (e.g. pilot lights on gas hot water heater).
Wash spill site after material pickup is complete.

Access to other sections

Further exposure controls, personal protection and disposal considerations can be found in sections 8 and 13.

6. HANDLING AND STORAGE

Precautions for safe handling

Do not eat, drink or smoke while handling.
Wash the eyes, face and clothing. Wear protective clothing and use glasses.
Follow all safety and hygiene at work.
Use original container or an alternative made from a compatible material.

Precautions for safe storage, including any incompatibilities

Store in closed and preferably full containers in a cool, dry and ventilated area, protected from light.
Keep away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges).
Do not store with incompatible materials (see section 10).

Specific end use(s)

None available.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

8. Control parameters

With occupational exposure limits:

Name	CAS No.	Norm.	8 hr.		15 min.		
				ppm	mg/m ³	ppm	mg/m ³
Ethyl acetate	141-78-6	DE (Deutschland)	AGW	200	730	AGW	
		ES (España)	VLA-ED	200	734	VLA-EC	400 1468
		IT (Italia)	Valori Limite	200	734	Valori Limite	400 1468
		UK (United Kingdom)	Workplace exposure limit	200	734	Workplace exposure limit	400 1468
		OSHA	PEL-TWA	400	1400	PEL-STEL	
		Cal OSHA	PEL-TWA	400	1400	PEL-STEL	

Exposure controls

Engineering controls: Measures should be taken to prevent materials from being splashed into the body.
Provide adequate ventilation, according to the conditions of use. Use a mechanical exhaust if required.
Substitution: Chemical safety goggles are recommended. Wash contaminated goggles before reuse.
Administrative controls: Chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.
Personal protective equipment: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory Protection:

In case of insufficient ventilation, use suitable respiratory equipment.
Environmental exposure controls: Emissions from ventilation or process equipment should be checked to ensure they comply with environmental protection legislation.
In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

PHYSICAL

7. CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Liquid
Odour:	Conforms to standard
Boiling point:	Conforms to standard
Freezing point:	Not determined
Boiling point and range (°C):	77.2 °C (1013 hPa)
Flash point:	Not determined
Explosion limit:	Not determined

ETHYL ACETATE
Revision date: 23-01-2023
Version: 4.0/CLP/EN

Print Date: 06-03-2023
Page: 4 / 5

Flash point:	-4 °C
Boiling point:	Not determined
Freezing point:	Not determined
Relative density:	Not determined
Water solubility:	Not determined
Partition coefficient n-octanol/water (log value):	87 g/l at 20°C/SOLUBLE IN ETHANOL
Log Pow:	log Pow 0,6/0,73
Boiling point at 101.30 hPa (20°C):	101.30 hPa (20°C)
Relative density (20°C):	0,899—0,901 g/mL (20°C) / 0,899—0,901 (20°C)
Specific gravity (20°C):	3 (AIR = 1)
Other characteristics:	Not determined

Other information

Information with regard to physical hazard classes:

Not available.

Other safety characteristics:

Not available.

STABILITY AND REACTIVITY

Reactivity

Reactions if stored and handled as prescribed/indicated.

Chemical stability

Stable if stored and handled as prescribed/indicated.

Stability of hazardous reactions

Stable if stored and handled as prescribed/indicated.

Conditions to Avoid

Avoid: Excessive heat, flame or other ignition sources.

Incompatible materials

With strong acids and bases and oxidizing agents.

Hazardous decomposition products

Decomposition may form carbon monoxide and unidentified organic compounds.

TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Based on the data available, the criteria for classification are not met.
Corrosion/irritation	Based on the data available, the criteria for classification are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Sensitization or skin sensitisation	Based on the data available, the criteria for classification are not met.
Reproductive toxicity	Based on the data available, the criteria for classification are not met.
Genotoxicity	Based on the data available, the criteria for classification are not met.
Specific target organ toxicity	Based on the data available, the criteria for classification are not met.
Aspiration hazard	May cause drowsiness or dizziness.
Respiratory hazard	Based on the data available, the criteria for classification are not met.
Environmental hazard	Based on the data available, the criteria for classification are not met.
Other information	Repeated exposure may cause skin dryness or cracking.

Information on other hazards

Endocrine disrupting properties:

Containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

Other information:

Not available.

ECOLOGICAL INFORMATION

Toxicity

Based on the data available, the criteria for classification are not met.

Environmentally calculated data:



ETHYL ACETATE
Revision date: 23-01-2023
Version: 4.0/CLP/EN

Print Date: 06-03-2023
Page: 5 / 5

Persistence and degradability

Biodegradability: 9%. (OECD).

12.2. Bioaccumulative potential
Not bioaccumulative.

12.4. Soil mobility
Not available.

12.5. Results of PBT and vPvB assessment
Does not contain any component that meets the criteria for PBT or vPvB according to Regulation (EC) 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties
Does not contain any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

12.7. Other adverse effects
Substances 1, 13 and 15
Do not enter into waste water or waterways.

DISPOSAL CONSIDERATIONS

13. Waste treatment methods
In accordance with national and local environmental regulations.

TRANSPORT INFORMATION

UN	ADR/RD/ADN	IMDG	IATA-ICAO
101	UN1173	UN1173	UN1173
102	Shipping Name	ETHYL ACETATE	ETHYL ACETATE
103	Hazard Class(es)	3	3
104	Substance	II	II
105	Other hazards	No	No
Additional information			

14. Special precautions for user
None known.

14.1. Maritime transport in bulk according to IMO instruments
Not available.

REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not available.

15.2. Chemical safety assessment
Not available.

OTHER INFORMATION

Full text of the R-phrases, hazard statements and precautionary statements mentioned in section 3:

- H1: Flammable liquid and vapour.
H2: Causes eye irritation.
H2: Causes drowsiness or dizziness.

Included in this safety data sheet is based on the available data at the moment this document is issued. It is meant to be a description of safety of the product and does not stand for a guarantee of its properties. The user is responsible for taking all necessary steps leading to compliance with local regulations and legislation.



SPECIFICATION SHEET

VERSION 5,00 **VERSION DATE** 19/11/21 **PRINT DATE** 06/03/23

PRODUCT ETHYL ACETATE
APPLICATIONS Industrial raw material not intended for direct use.
IUPAC NAME ETHYL ACETATE
SYNonyms ETHYL ACETATE, ACETIC ETHER, VINEGAR NAPHTA

FORMULA C₄ H₈ O₂
MOLECULAR WEIGHT 88,00
CAS 141-78-6

EIN 205-500-4

INDEX 2414
FAIRFAX NUMBER 2915310000



FOCUS DE CERTIFICATE AVAILABLE ON REQUEST
REGISTRATION NO. 01-2119475103-46

SPECIFICATIONS

ASPECT AT 20°C	CLEAR MOBILE LIQUID
COLOUR	COLORLESS
ODOUR	STRONG, PLEASANT, FRUITY, BRANDY
TASTE	
DENSITY AT 20°C (g / ml)	0,899 - 0,901
DENSITY 25/25	
REFRACTIVE INDEX nD20	1,3700 - 1,3750
REFRACTIVE INDEX nD25	
OPTICAL ROTATION (°)	
BOILING POINT (°C)	77.2 °C (1013 hPa)
MELTING POINT (°C)	
FLASH POINT (°C)	-4,00
ASSAY (% GC)	> 99,5
ACID VALUE (mg KOH/g)	< 0,005% (HAc)
SOLUBILITY	87 g/l at 20°C
VAPOUR PRESSURE	101.30 hPa (20°C)
OTHER SOLUBILITIES	SOLUBLE IN ETHANOL

INITIAL DATA

STABILITY AND STORAGE

KEEP IN TIGHTLY CLOSED CONTAINER IN A COOL AND DRY PLACE, PROTECTED FROM LIGHT. WHEN STORED FOR MORE THAN 24 MONTHS, QUALITY SHOULD BE CHECKED BEFORE USE.
KEEP AWAY FROM IGNITION/HEAT SOURCES. TO AVOID DIRECT SUN RADIATION.

WE BELIEVE THE ABOVE INFORMATION TO BE CORRECT BUT WE DO NOT PRESENT IT AS ALL INCLUSIVE AND AS SUCH SHOULD BE USED AS A GUIDE.
IT IS THE SOLE RESPONSIBILITY OF THE RECEIVER OF OUR PRODUCT TO COMPLY WITH EXISTING REGULATIONS AND INSTRUCTIONS.

THIS PRODUCT HAS NOT BEEN FILTERED DUE TO TECHNOLOGICAL REASONS. WE RECOMMEND NOT TO USE IT UNLESS FILTERED WHEN USED AS A RAW MATERIAL NOT INTENDED FOR FINAL CONSUMERS.



6 March 2023

VEGAN / VEGETARIAN DECLARATION

Product: Ethyl Acetate

Customer: MADAR CORPORATION LIMITED

We hereby inform that, to the best of our knowledge, the above-mentioned material is suitable for the following diets:

- ☒ **Vegan**
Does not contain any ingredient of animal origin (mammalian, poultry, fish, crustacean, mollusc) or animal derivatives (dairy, egg and bee products) including additives and processing aids.
- ☐ **Vegetarian**
Does not contain any ingredient of animal origin (mammalian, poultry, fish, crustacean, mollusc) or dairy and egg products, including additives and processing aids. Bee products (e.g. honey, bees wax) are acceptable.
- ☐ **Ovo-Lacto Vegetarian**
Does not contain any ingredient of animal origin (mammalian, poultry, fish, crustacean, mollusc) including additives and processing aids. Dairy, egg and bee products (e.g. honey, acceptable. bees wax)

'Animal' refers to the entire animal kingdom, i.e. vertebrated and multicellular invertebrates