

FORMATE D'ETHYLE
Revision date: 23-01-2023
Version: 4.0/CLP/EN

Print Date: 05-05-2024
Page: 1 / 5

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Identification of the substance/mixture

Trade name: FORMATE D'ETHYLE
Substance name: ETHYL FORMATE
CAS Number: 109-94-4
CE Number: 203-721-0
REACH Registration number: Exempt from registration (imported/manufactured < 1 ton/year)

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

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

1.3. Details of the supplier of the safety data sheet

Company: Prodasynt
Address: 4 Av. Joseph Honoré Isnard
06130 GRASSE – FRANCE
Telephone: (00 33) 4 93 09 00 11
Fax: (00 33) 4 22 13 07 38
E-mail: info@prodasynt.com

1.4. Emergency telephone number

(00 33) 4 93 09 00 11 (8:30 - 17:30)
National emergency information services:
FR: (+33) 1 45 42 59 59 (24h/7)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Flammable Liquids - Category 2 - H225
Acute Toxicity - Category 4 (oral) - H302
Acute Toxicity - Category 4 (inhalation) - H332
Eye Irritant - Category 2 - H319
Specific target organ toxicity following single exposure - Category 3 (irritation) - H335

2.2. Label Elements

Hazard pictograms:



Signal Word:
Danger

Hazard statements:

H225 – Highly flammable liquid and vapour.
H302 – Harmful if swallowed.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H335 – May cause respiratory irritation.

Precautionary statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 – Keep container tightly closed.
P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P337+P313 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

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Version: 4.0/CLP/EN

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Page: 2 / 5

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Chemical name: ETHYL FORMATE
CAS number: 109-94-4
EC number: 203-721-0

Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No. Index No.	Classification according to Regulation 1272/2008	Specific Concentration Limit, M-factor, ATE, SVHC
ETHYL FORMATE	≥50	109-94-4 203-721-0 607-015-00-7(ATP 25)	Flam. Liq. 2 - H225 Acute Tox. 4 (oral) - H302 Acute Tox. 4 (inhalation) - H332 Eye Irrit. 2 - H319 STOT SE 3 (irr.) - H335	ATE (oral): 1850 mg/kg, ATE (inh, vapour): 11 mg/L

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

3.2. Mixtures

Not applicable.

SECTION 4. FIRST-AID MEASURES**4.1. Description of necessary first aid measures**

Ingestion: 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.

Inhalation: Remove person to fresh air and keep at rest.
Seek immediate medical advice.

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

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

No information available.

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

No information available.

SECTION 5. FIRE-FIGHTING MEASURES**5.1. Extinguishing Media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.
For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Known or Anticipated Hazardous Products of Combustion: Emits toxic fumes under fire conditions.

5.3. Advice for firefighters

High temperatures can lead to high pressures inside closed containers.
Avoid inhalation of vapors that are created. Use appropriate respiratory protection.
Do not allow spillage of fire to be poured into drains or watercourses.
Wear self-contained breathing apparatus and protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate surrounding areas. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.
Do not breathe vapor/spray. Avoid contact with skin and eyes. Information regarding personal protective measures: see section 8.

6.2. Environmental precautions

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

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6.3. Methods and materials for containment and cleaning up

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).
Place in covered containers using non-sparking tools and transport outdoors.
Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater).
Ventilate area and wash spill site after material pickup is complete.

6.4. Reference to other sections

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

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not store or handle this material near food or drinking water. Do not smoke.
Avoid contact with the eyes, skin and clothing. Wear protective clothing and use glasses.
Observe the rules of safety and hygiene at work.
Keep in the original container or an alternative made from a compatible material.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly 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).
Keep away from incompatible materials (see section 10).

7.3. Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
				ppm	mg/m ³		ppm	mg/m ³
ETHYL FORMATE	109-94-4	DE (Deutschland)	AGW	100	310	AGW		
		ES (España)	VLA-ED	100	308	VLA-EC		
		FR (France)	VME	100	300	VLCT		
		UK (United Kingdom)	Workplace exposure limit	100	308	Workplace exposure limit	150	462
		OSHA	PEL-TWA	100	300	PEL-STEL		
		Cal OSHA	PEL-TWA	100	300	PEL-STEL		

8.2. Exposure controls

Appropriate 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.
Eye/Face protection: Chemical safety goggles are recommended. Wash contaminated goggles before reuse.
Hand Protection: Chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.
Body protection: 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Conforms to standard
Odour: Conforms to standard
Melting point/freezing point: -80
Boiling point or initial boiling point and range (°C): 53 - 55
Flammability: Not determined
Lower and upper explosion limit: Not determined

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Revision date: 23-01-2023

Version: 4.0/CLP/EN

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Page: 4 / 5

Flash point:	-19 °C
Auto-ignition temperature:	APPROX. 455°C
Decomposition temperature:	Not determined
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility:	SOLUBILITY IN WATER 110 g/L (18°C)/SOLUBLE IN ETHANOL. SOLUBLE IN ETHANOL 50% 1:5. SOLUBLE IN ETHANOL 80% 1:1
Partition coefficient n-octanol/water (log value):	log Pow 0,3
Vapour pressure:	265,0 mbar (20°C)
Density and/or relative density:	0,918—0,925 g/mL (20°C) / 0,918—0,925 (20°C)
Relative vapour density:	2,5 (AIR = 1)
Particle characteristics:	Not determined

9.2. Other information

9.2.1. Information with regard to physical hazard classes:

No information available.

9.2.2. Other safety characteristics:

No information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to Avoid

Conditions to Avoid: Excessive heat, flame or other ignition sources.

10.5. Incompatible materials

Avoid contact with strong acids and bases and oxidizing agents.

10.6. Hazardous decomposition products

During combustion may form carbon monoxide and unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity	Harmful if swallowed. Harmful if inhaled.
Skin corrosion/irritation	Based on the data available, the criteria for classification are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Based on the data available, the criteria for classification are not met.
Germ cell mutagenicity	Based on the data available, the criteria for classification are not met.
Carcinogenicity	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.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Based on the data available, the criteria for classification are not met.
Aspiration hazard	Based on the data available, the criteria for classification are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties:

Product not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

11.2.2. Other information:

No information available

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Assessment:

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

Experimental/calculated data:

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Version: 4.0/CLP/EN

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Page: 5 / 5

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Soil mobility

No information available.

12.5. Results of PBT and vPvB assessment

Product not containing any component that meets the criteria for PBT or vPvB according to Regulation (EC) 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties

Product not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

12.7. Other adverse effects

See also sections 6, 7, 13 and 15

Do not allow to get into waste water or waterways.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of in accordance with national and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID/ADN	IMDG	IATA-ICAO
14.1. UN Number	UN1190	UN1190	UN1190
14.2. UN Proper Shipping Name	ETHYL FORMATE	ETHYL FORMATE	ETHYL FORMATE
14.3. Transport Hazard Class(es)	3	3	3
14.4. Packing Group	II	II	II
14.5. Environmental hazards	No	No	No
Additional information			

14.6 Special precautions for user

None known

14.7. Maritime transport in bulk according to IMO instruments

No information available

SECTION 15: REGULATORY INFORMATION

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

WGK:WGK 1

15.2. Chemical safety assessment

No information available

SECTION 16: OTHER INFORMATION

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

H225 – Highly flammable liquid and vapour.

H302 – Harmful if swallowed.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H335 – May cause respiratory irritation.

The information 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 requirements for our 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 rules and legislation.

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