

according to Regulation (EC) No 1907/2006

# NATURAL ETHYL FORMATE

Revision date: 11.09.2023

Product code: 243400

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

# 1.1. Product identifier

NATURAL ETHYL FORMATE

| Substance name: | NATURAL ETHYL FORMATE |
|-----------------|-----------------------|
| CAS No:         | 109-94-4              |
| Index No:       | 607-015-00-7          |
| EC No:          | 203-721-0             |
|                 |                       |

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

#### Use of the substance/mixture

For Flavour use for food and feed only

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

| Company name:            | Axxence Aromatic GmbH                 |                                |
|--------------------------|---------------------------------------|--------------------------------|
| Street:                  | Tackenweide 28                        |                                |
| Place:                   | D-46446 Emmerich am Rhein             |                                |
| Telephone:               | + 49 2822 68561 0                     | Telefax: + 49 2822 68561 39    |
| E-mail:                  | info@axxence.com                      |                                |
| Contact person:          | Andreas Goertz                        | Telephone: + 49 2822 68561 143 |
| E-mail:                  | andreas.goertz@axxence.com            |                                |
| Internet:                | www.axxence.de                        |                                |
| Responsible Department:  | QM - Regulatory Affairs - Safety Mana | agement                        |
| 1.4. Emergency telephone | +49 2822 68561 99                     |                                |

#### number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

#### Regulation (EC) No 1272/2008

Signal word:

Pictograms:



#### Hazard statements

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

#### Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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| 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.   |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P264           | Wash thoroughly after handling.   |
| P270           | Do not eat, drink or smoke when using this product.   |
| P271           | Use only outdoors or in a well-ventilated area.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing<br>protection.                                    |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.   |
| P330           | Rinse mouth.  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                              |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |
| P312           | Call a POISON CENTER/doctor if you feel unwell.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br>present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.   |
| P233           | Keep container tightly closed.  |
| P403+P235      | Store in a well-ventilated place. Keep cool.  |
| P405           | Store locked up.  |
| P501           | Dispose of contents/container to  |
|                |   |

# 2.3. Other hazards

This substance is not listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

| Sum formula:      | C3 H6 O2 |
|-------------------|----------|
| Molecular weight: | 74,08    |

# **Relevant ingredients**

| CAS No   | Chemical name   |  |  | Quantity |  |
|----------|---|--|--|----------|--|
|          | EC No Index No REACH No   |  |  |          |  |
|          | Classification (Regulation (EC) No 1272/2008)   |  |  |          |  |
| 109-94-4 | NATURAL ETHYL FORMATE   |  |  | 100 %    |  |
|          | 203-721-0 607-015-00-7  |  |  |          |  |
|          | Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H302 H319 H335 |  |  |          |  |

Full text of H and EUH statements: see section 16.

| Specific Con | Specific Conc. Limits, M-factors and ATE |   |       |  |  |
|--------------|--|---|-------|--|--|
| CAS No       | CAS No EC No Chemical name               |   |       |  |  |
|              | Specific Conc. I                         | imits, M-factors and ATE  |       |  |  |
| 109-94-4     | 203-721-0                                | NATURAL ETHYL FORMATE   | 100 % |  |  |
|              |  | = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 =<br>oral: LD50 = 1850 mg/kg |       |  |  |



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## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

## After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Medical treatment necessary.

#### 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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

Water.

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

Highly flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

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

## General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

# 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

# Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.





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# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

## 7.3. Specific end use(s)

For Flavour use for food and feed only

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

# 8.1. Control parameters

# DNEL/DMEL values

| CAS No                                | Name of agent   |            |          |                       |  |
|---------------------------------------|---|------------|----------|-----------------------|--|
| DNEL type Exposure route Effect Value |   |            |          | Value                 |  |
| 109-94-4                              | NATURAL ETHYL FORMATE                                   |            |          |                       |  |
| Worker DNEL,                          | NEL, long-term inhalation systemic 11 mg/m <sup>3</sup> |            |          |                       |  |
| Worker DNEL, long-term                |   | dermal     | systemic | 15,8 mg/kg<br>bw/day  |  |
| Consumer DNE                          | EL, long-term   | inhalation | systemic | 2,76 mg/m³            |  |
| Consumer DNEL, long-term              |   | dermal     | systemic | 7,89 mg/kg<br>bw/day  |  |
| Consumer DNEL, long-term              |   | oral       | systemic | 0,789 mg/kg<br>bw/day |  |



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#### **PNEC** values

| CAS No  | Name of agent |  |  |  |
|---|---------------|--|--|--|
| Environmental compartment Value                       |               |  |  |  |
| 109-94-4 NATURAL ETHYL FORMATE                        |               |  |  |  |
| Freshwater 0,1 mg/l                                   |               |  |  |  |
| Marine water 0,01 mg/l                                |               |  |  |  |
| Freshwater sediment 1,28 mg/kg                        |               |  |  |  |
| Marine sediment 0,128 mg/kg                           |               |  |  |  |
| Micro-organisms in sewage treatment plants (STP) 55,1 |               |  |  |  |
| Soil 0,197 m  |               |  |  |  |

# 8.2. Exposure controls









## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

## Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: Butyl caoutchouc (butyl rubber)

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

# Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

# **SECTION 9: Physical and chemical properties**

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

| 00 °O    |
|----------|
| -80 °C   |
| 54 °C    |
|          |
| ermined  |
| 3 vol. % |
| 6 vol. % |
| -20 °C   |
| 445 °C   |
| ermined  |
| 4,1      |
| 6        |



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| NATURAL ETHYL FORMATE                                    |                        |              |  |  |
|--|------------------------|--------------|--|--|
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| Viscosity / kinematic:                                   | 10,9 mm²/s             |              |  |  |
| (at 40 °C)   |                        |              |  |  |
| Water solubility:  | 105 g/L                |              |  |  |
| (at 20 °C)   |                        |              |  |  |
| Solubility in other solvents                             |                        |              |  |  |
| not determined   |                        |              |  |  |
| Partition coefficient n-octanol/water:                   | 1,504                  |              |  |  |
| Vapour pressure:   | 266 hPa                |              |  |  |
| (at 20 °C)   |                        |              |  |  |
| Vapour pressure:   | 872 hPa                |              |  |  |
| (at 50 °C)   |                        |              |  |  |
| Density (at 20 °C):                                      | 0,92 g/cm <sup>3</sup> |              |  |  |
| Relative vapour density:                                 | 2,55                   |              |  |  |
| (at 20 °C)   |                        |              |  |  |
| 9.2. Other information                                   |                        |              |  |  |
| Information with regard to physical hazard classes       |                        |              |  |  |
| Explosive properties                                     |                        |              |  |  |
| The product is not: Explosive. not explosive according t | to EU A.14             |              |  |  |
| Oxidizing properties                                     |                        |              |  |  |
| The product is not: oxidising.                           |                        |              |  |  |
| Other safety characteristics                             |                        |              |  |  |
| Evaporation rate:  | not determined         |              |  |  |
| Solvent content:   | 0%                     |              |  |  |
| Solid content:   | 0%                     |              |  |  |
| Viscosity / dynamic:                                     | 10,22 mPa·s            |              |  |  |
| (at 20 °C)   |                        |              |  |  |

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Highly flammable.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **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.



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| CAS No   | Chemical name        |                       |          |         |                    |        |  |
|----------|----------------------|-----------------------|----------|---------|--------------------|--------|--|
|          | Exposure route       | Dose                  |          | Species | Source             | Method |  |
| 109-94-4 | NATURAL ETHYL FORM   | NATURAL ETHYL FORMATE |          |         |                    |        |  |
|          | oral                 | LD50<br>mg/kg         | 1850     | Rat     | GESTIS             |        |  |
|          | dermal               | LD50<br>mg/kg         | >20000   | Rabbit  | REACH registration |        |  |
|          | inhalation vapour    | ATE                   | 11 mg/l  |         |                    |        |  |
|          | inhalation dust/mist | ATE                   | 1,5 mg/l |         |                    |        |  |

#### Irritation and corrosivity

#### Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

## STOT-single exposure

May cause respiratory irritation. (NATURAL ETHYL FORMATE)

## 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.

# 11.2. Information on other hazards

Endocrine disrupting properties

No information available.

#### **Further information**

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

# **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No   | Chemical name            |               |       |                   |                                   |                       |          |  |  |
|----------|--------------------------|---------------|-------|-------------------|-----------------------------------|-----------------------|----------|--|--|
|          | Aquatic toxicity         | Dose          |       | [h]   [d] Species |                                   | Source                | Method   |  |  |
| 109-94-4 | 4 NATURAL ETHYL FORMATE  |               |       |                   |                                   |                       |          |  |  |
|          | Acute fish toxicity      | LC50<br>mg/l  | >100  | 96 h              | Danio rerio (zebrafish)           | REACH registration    | OECD 203 |  |  |
|          | Acute algae toxicity     | ErC50<br>mg/l | 131,7 | 96 h              | not specified                     | REACH<br>registration |          |  |  |
|          | Acute crustacea toxicity | EC50<br>mg/l  | 212,5 |                   | Daphnia magna (Big<br>water flea) | REACH<br>registration | OECD 202 |  |  |

# 12.2. Persistence and degradability

The product has not been tested.



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| CAS No   | Chemical name                                       |                      |    |                    |  |  |  |  |
|----------|---|----------------------|----|--------------------|--|--|--|--|
|          | Method  | Value                | d  | Source             |  |  |  |  |
|          | Evaluation 4-4 NATURAL ETHYL FORMATE                |                      |    |                    |  |  |  |  |
| 109-94-4 |   |                      |    |                    |  |  |  |  |
|          | OECD 301 D  | 77,48 %              | 28 | REACH registration |  |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |                      |    |                    |  |  |  |  |
|          | OECD 301 D  | 60,92                | 14 | REACH registration |  |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |                      |    |                    |  |  |  |  |
|          | OECD 301 D  | OECD 301 D 34,43 7 R |    | REACH registration |  |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |                      |    |                    |  |  |  |  |

# 12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No   | Chemical name         | Log Pow |
|----------|-----------------------|---------|
| 109-94-4 | NATURAL ETHYL FORMATE | 1,504   |

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. The product has not been tested.

# 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. No information available.

12.7. Other adverse effects

No information available.

## Further information

Avoid release to the environment. Wassergefährdungsklasse 1 - schwach wassergefährdend

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

## List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

# Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.



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# **SECTION 14: Transport information**

| Land transport (ADR/RID)<br><u>14.1. UN number or ID number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u><br>Hazard label:  | UN 1190<br>ETHYL FORMATE<br>3<br>II<br>3                          |
|--|---|
| Classification code:<br>Limited quantity:<br>Excepted quantity:<br>Transport category:<br>Hazard No:<br>Tunnel restriction code:<br>Other applicable information (land trans<br>E2   | F1<br>1 L<br>E2<br>2<br>33<br>D/E<br><b>port)</b>                 |
| Inland waterways transport (ADN)<br><u>14.1. UN number or ID number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u><br>Hazard label:  | UN 1190<br>ETHYL FORMATE<br>3<br>II<br>3                          |
| Classification code:<br>Limited quantity:<br>Excepted quantity:<br><b>Other applicable information (inland wat</b><br>F2   | F1<br>1 L<br>E2<br>rerways transport)                             |
| Marine transport (IMDG)<br><u>14.1. UN number or ID number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u><br>Hazard label:   | UN 1190<br>ETHYL FORMATE<br>3<br>II<br>3                          |
| Special Provisions:<br>Limited quantity:<br>Excepted quantity:<br>EmS:<br>Air transport (ICAO-TI/IATA-DGR)<br><u>14.1. UN number or ID number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u> | -<br>1 L<br>E2<br>F-E, S-D<br>UN 1190<br>ETHYL FORMATE<br>3<br>II |



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|--|---|
| 3  |   |
|  |   |
| 1 L  |   |
| Y341   |   |
| E2   |   |
| 353  |   |
| 5 L  |   |
| 364  |   |
| 60 L   |   |
|  |   |
| No   |   |
|  |   |
| ations/legislation specific for the substance or mixture   |   |
|  |   |
|  |   |
| 100 % (920 g/l)  |   |
| 100 % (920 g/l)  |   |
| P5c FLAMMABLE LIQUIDS  |   |
|  |   |
|  |   |
| Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). | enile   |
|  | Y341<br>E2<br>353<br>5 L<br>364<br>60 L<br>No<br>IMO instruments<br>tions/legislation specific for the substance or mixture<br>100 % (920 g/l)<br>100 % (920 g/l) |

For this substance a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,14,15,16.



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# Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text)

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

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible

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# for adhering to existing laws and regulations.

# Identified uses

| No | Short title                               | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|---|-----|----|----|------|-----|----|----|---------------|
|    | For Flavour use for food<br>and feed only | -   | -  | -  | -    | -   | -  | -  | Flavour       |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories