

Safety Data Sheet

according to UK REACH Regulation

NATURAL PROPIONIC ACID

Revision date: 10.12.2024

Product code: 292400

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

1.1. Product identifier

NATURAL PROPIONIC ACID

Substance name: NATURAL PROPIONIC ACID
REACH Registration Number: 01-2119486971-24-XXXX
CAS No: 79-09-4
Index No: 607-089-00-0
EC No: 201-176-3

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

Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

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
E-mail: info@axxence.com
Contact person: Safety Team
E-mail: safety-documentation@axxence.com
Internet: www.axxence.de
Responsible Department: Safety Management

Telefax: + 49 2822 68561 39

Telephone: + 49 2822 68561 0

1.4. Emergency telephone number:

+49 2822 68561 99

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226
Skin Corr. 1B; H314
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word:

Danger

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.

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| | |
|----------------|---|
| 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. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P363 | Wash contaminated clothing before reuse. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370+P378 | In case of fire: Use Water spray jet / Extinguishing powder / Carbon dioxide (CO ₂) / alcohol resistant foam to extinguish. |
| 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 Organic waste. |

2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59. This substance is not identified as a substance of very high concern (SVHC) and is not subject to authorization according to REACH, Annex XIV.

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|-------------------|--|
| Sum formula: | C ₃ H ₆ O ₂ |
| Molecular weight: | 74,08 g/mol |

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|---------|--|--------------|-----------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 79-09-4 | NATURAL PROPIONIC ACID | | | 100 % |
| | 201-176-3 | 607-089-00-0 | 01-2119486971-24-XXXX | |
| | Flam. Liq. 3, Skin Corr. 1B, STOT SE 3; H226 H314 H335 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|---------|-----------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 79-09-4 | 201-176-3 | NATURAL PROPIONIC ACID | 100 % |
| | | inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = 3235 mg/kg; oral: LD50 = 3455 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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 exhaust 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)

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|----------------|-----|-------------------|-----------|---------------|--------|
| 79-09-4 | Propionic acid | 10 | 31 | | TWA (8 h) | WEL |
| | | 15 | 46 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|------------------------|----------------|----------|------------------------|
| 79-09-4 | NATURAL PROPIONIC ACID | | | |
| Worker DNEL, long-term | | inhalation | systemic | 73 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 62 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 31 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 20,9 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 18,3 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 3,7 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 30,8 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 10,5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 10,5 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|------------------------|-------------|
| 79-09-4 | NATURAL PROPIONIC ACID | |
| Freshwater | | 0,5 mg/l |
| Freshwater (intermittent releases) | | 5 mg/l |
| Marine water | | 0,05 mg/l |
| Freshwater sediment | | 1,86 mg/kg |
| Marine sediment | | 0,186 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 5 mg/l |
| Soil | | 0,126 mg/kg |

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

Suitable gloves type: Butyl caoutchouc (butyl rubber) / FKM (fluoro rubber)

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.

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Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Physical state: | Liquid |
| Colour: | Colourless to pale yellow |
| Odour: | Acrid, pungent |
| Melting point/freezing point: | -24 °C |
| Boiling point or initial boiling point and boiling range: | 141 °C |
| Flammability: | not determined |
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Flash point: | 53 °C |
| Auto-ignition temperature: | 440 °C |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 2,5 |
| Viscosity / kinematic: (at 20 °C) | 1,11 mm ² /s |
| Water solubility: (at 25 °C) | 1000 g/l |
| Solubility in other solvents | not determined |
| Partition coefficient n-octanol/water: | 0,33 |
| Vapour pressure: (at 20 °C) | 3,9 hPa |
| Vapour pressure: (at 50 °C) | 22,01 hPa |
| Density (at 20 °C): | 0,99 g/cm ³ |
| Relative vapour density: (at 20 °C) | 2,55 |
| Particle characteristics: | not applicable |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. not explosive according to EU A.14

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

| | |
|------------------------------------|----------------|
| Evaporation rate: | not determined |
| Solid content: | not determined |
| Viscosity / dynamic: (at 20 °C) | 1,102 mPa·s |

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

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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 GB CLP Regulation

Acute toxicity

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

| CAS No | Chemical name | | | | |
|---------|-------------------------|-----------------|---------|--------------------|----------|
| | Exposure route | Dose | Species | Source | Method |
| 79-09-4 | NATURAL PROPIONIC ACID | | | | |
| | oral | LD50 3455 mg/kg | Rat | REACH Registration | OECD 401 |
| | dermal | LD50 3235 mg/kg | Rat | REACH Registration | OECD 402 |
| | inhalation (4 h) vapour | LC50 >20 mg/l | Rat | REACH Registration | OECD 403 |

Irritation and corrosivity

Serious eye damage/eye irritation: Skin corrosion/irritation: Causes severe skin burns and eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

May cause respiratory irritation. (NATURAL PROPIONIC ACID)

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.

Other information

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

SECTION 12: Ecological information

12.1. Toxicity

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

The product is not: Ecotoxic.

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| CAS No | Chemical name | | | | | |
|---------|--------------------------|------------------|-----------|---------|-----------------------------------|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 79-09-4 | NATURAL PROPIONIC ACID | | | | | |
| | Acute fish toxicity | LC50 mg/l | >10.000 | 96 h | Leuciscus idus (golden orfe) | REACH Registration DIN 38412 |
| | Acute crustacea toxicity | EC50 mg/l | > 500 | 48 h | Daphnia magna (Big water flea) | REACH Registration EU C.2 |
| | Acute bacteria toxicity | EC50 mg/l () | >100 | 0,5 h | Activated sludge | REACH Registration DIN/EN ISO 8192 |

12.2. Persistence and degradability

The product has not been tested.

| The product has not been tested. | | | | |
|----------------------------------|------------------------|-------|----|--------------------|
| CAS No | Chemical name | | | |
| | Method | Value | d | Source |
| | Evaluation | | | |
| 79-09-4 | NATURAL PROPIONIC ACID | | | |
| | OECD 302 B | 95% | 10 | REACH registration |
| | Readily biodegradable | | | |
| | OECD 302 B | 94% | 8 | REACH registration |
| | Readily biodegradable | | | |
| | OECD 302 B | 84% | 3 | REACH registration |
| | Readily biodegradable | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|------------------------|---------|
| 79-09-4 | NATURAL PROPIONIC ACID | 0,33 |

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 UK REACH.

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.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

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

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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.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3463
14.2. UN proper shipping name: PROPIONIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3



Classification code: CF1
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 83
Tunnel restriction code: D/E

Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3463
14.2. UN proper shipping name: PROPIONIC ACID with not less than 90% acid by mass
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8 +3



Classification code: CF1
Limited quantity: 1 L
Excepted quantity: E2

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3463
14.2. UN proper shipping name: PROPIONIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3



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Special Provisions: -
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3463
14.2. UN proper shipping name: PROPIONIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3



Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid. strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

Hazchem code: •2W

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Directive 2010/75/EU on industrial emissions: 100 % (990 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 100 % (990 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

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Abbreviations and acronyms

Flam. Liq: Flammable liquids
 Skin Corr: Skin corrosion
 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).
 EC/EEC: European Community/European Economic Community
 EU: European Union
 M-factor: Multiplying factor
 IATA: International Air Transport Association
 DGR: Dangerous Goods Regulations
 ICAO: International Civil Aviation Organization
 TI: Technical Instructions
 VOC: volatile organic compound

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.

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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 for adhering to existing laws and regulations.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|--|-----|----|----|------|-----|----|----|---------------|
| 1 | Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other | - | - | - | - | - | - | - | |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories