

Ethylenediamine v.p.

Revision: 22.08.2025

Product code: AC19.00253

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Ethylenediamine v.p.

REACH Registration Number: 01-2119480383-37-XXXX
CAS No: 107-15-3
Index No: 612-006-00-6
EC No: 203-468-6

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

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem Services, Unipessoal, Lda
Street: Rua de Júlio Dinis 676 7º
Place: N-4050-320 Porto
Telephone: +351 226002917
E-mail: info@analyticchem.com
Contact person: SDS service department
E-mail: SDS@analyticchem.com
Internet: www.analyticchem.com
Responsible Department: SDS service department

Supplier or manufacturer details

Company name: AnalytiChem Belgium NV
Street: Industriezone "De Arend" 2
Place: B-8210 Zedelgem
Telephone: +32 50 28 83 20
E-mail: info.be@analyticchem.com
Contact person: SDS service department
E-mail: SDS@analyticchem.com
Responsible Department: AnalytiChem
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

1.4. Emergency telephone number:

+44 20 3807 3798 (CHEMTREC)

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Further Information

No data available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226
Acute Tox. 3; H311
Acute Tox. 4; H332
Acute Tox. 4; H302
Skin Corr. 1B; H314
Resp. Sens. 1; H334
Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H226 Flammable liquid and vapour.
H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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/doctor.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients**3.1. Substances**

Sum formula: H₂NCH₂CH₂NH₂
Molecular weight: 60,1 g/mol

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Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|----------|--|--------------|-----------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 107-15-3 | ethylenediamine | | | 100 % |
| | 203-468-6 | 612-006-00-6 | 01-2119480383-37-XXXX | |
| | Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1, Aquatic Chronic 3; H226 H311 H332 H302 H314 H334 H317 H412 | | | |

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 | | |
| 107-15-3 | 203-468-6 | ethylenediamine | 100 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 560 mg/kg; oral: LD50 = 866 mg/kg | | |

Further Information

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

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

Self-protection of the first aider

After inhalation

Provide fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Call a physician immediately.

After contact with skin

Wash immediately with: Water
Take off immediately all contaminated clothing and wash it before reuse.
Call a physician immediately.

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

Rinse mouth immediately and drink plenty of water.
Do not allow a neutralisation agent to be drunk. Do NOT induce vomiting.
Call a physician immediately.

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

Irritant
corrosive
Dyspnoea
Risk of serious damage to eyes.
Allergic reactions
Cough
Dyspnoea

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

No data available

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam
Carbon dioxide (CO₂)
Extinguishing powder
Water

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids
Hazardous combustion products
In case of fire may be liberated:
Nitrogen oxides (NO_x)
Carbon dioxide (CO₂) Carbon monoxide
In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.
Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from sources of ignition - No smoking.
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).
Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Consult an expert
Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.
Danger of explosion

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

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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**

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Store in a place accessible by authorized persons only.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

- Keep in a cool, well-ventilated place.
- Keep container tightly closed and dry.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Unsuitable container/equipment material:
 - Light metal

Hints on joint storage

Take national regulations into account.

Further information on storage conditions

Keep cool. Protect from sunlight.

storage temperature < +30°C

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7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|-----------------|----------------|----------|------------------------|
| DNEL type | | | | |
| 107-15-3 | ethylenediamine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 25 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 3,6 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 12,5 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0,275 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|-----------------|-------------|
| Environmental compartment | | |
| 107-15-3 | ethylenediamine | |
| Freshwater | | 0,016 mg/l |
| Freshwater (intermittent releases) | | 0,167 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 7,68 mg/kg |
| Marine sediment | | 0,768 mg/kg |
| Secondary poisoning | | 4,9 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,5 mg/l |
| Soil | | 4,36 mg/kg |

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment**Eye/face protection**

goggles

Face protection umbrella

Hand protection

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact

Trade name/designation KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact > 480 min

By short-term hand contact

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Trade name/designation KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: A

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Danger of explosion

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|------------------|-------------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | like: Amines |
| Odour threshold: | No data available |

Test method

| | |
|--|--------|
| Melting point/freezing point: | 11 °C |
| Boiling point or initial boiling point and boiling range: | 117 °C |

| | |
|-------------------------|-------------------|
| Flammability: | No data available |
| Lower explosion limits: | 2 vol. % |

| | |
|-------------------------|-----------|
| Upper explosion limits: | 17 vol. % |
| Flash point: | 34 °C |

| | |
|----------------------------|---------|
| Auto-ignition temperature: | 405 °C |
| Decomposition temperature: | >120 °C |

| | |
|------------------------|-------------------|
| pH-Value (at 20 °C): | 12,2 (100 g/l) |
| Viscosity / kinematic: | No data available |

| | |
|-------------------|-------------------|
| Water solubility: | Soluble in: Water |
| (at 20 °C) | |

| | |
|------------------------------|-------------------|
| Solubility in other solvents | No data available |
| | No data available |

| | |
|--|-------------------|
| Dissolution rate: | No data available |
| Partition coefficient n-octanol/water: | log Pow: -2,04 |

| | |
|-----------------------|-------------------|
| Dispersion stability: | No data available |
|-----------------------|-------------------|

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| | |
|---------------------------|-------------------------|
| Vapour pressure: | 12 hPa |
| (at 20 °C) | |
| Vapour pressure: | No data available |
| Density: | 0,897 g/cm ³ |
| Relative density: | No data available |
| Bulk density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

405 °C

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics**Evaporation rate:**

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

17 mPa·s

(at 20 °C)

Flow time:

No data available

Further Information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

10.2. Chemical stability

Protect against: Air

10.3. Possibility of hazardous reactions

Acid halides
Acrolein
Acid chlorides, inorganic
Alcohols
aldehydes
Acetic acid
Acetic anhydride
Oxidising agent
Acids
Nitric acid

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Aluminium
Lead
Zinc
copper
Copper alloys
Iron.
Brass
bronze

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information**11.1. Information on hazard classes****Toxicokinetics, metabolism and distribution**

No data available

Acute toxicity

Toxic in contact with skin.

Harmful if inhaled.

Harmful if swallowed.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Pulmonary oedema

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

| CAS No | Chemical name | | | | | |
|----------|----------------------|----------------|---------|---------------------|---|--|
| | Exposure route | Dose | Species | Source | Method | |
| 107-15-3 | ethylenediamine | | | | | |
| | oral | LD50 866 mg/kg | Rat | Study report (1979) | OECD Guideline 401 | |
| | dermal | LD50 560 mg/kg | Rabbit | Study report (1948) | Concentrated and 10% water solution was | |
| | inhalation vapour | ATE 11 mg/l | | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | | |

Irritation and corrosivity

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

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (ethylenediamine)

May cause an allergic skin reaction. (ethylenediamine)

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.

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STOT-single exposure

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

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.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards**Endocrine disrupting properties**

No data available

Other information

Causes damage to organs.

Organs affected:

Liver and kidney damage

Further information

Irritant

corrosive

Dyspnoea

Risk of serious damage to eyes.

Pulmonary oedema

Gastrointestinal complaints

Vomiting

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|----------|--------------------------|--------------------|-----------|--|--|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 107-15-3 | ethylenediamine | | | | | |
| | Acute fish toxicity | LC50 640 mg/l | 96 h | Poecilia reticulata | Study report (1989) | EU Method C.1 |
| | Acute algae toxicity | ErC50 71 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1990) | EU Method C.3 |
| | Acute crustacea toxicity | EC50 16,7 mg/l | 48 h | Daphnia magna | Study report (1989) | EU Method C.2 |
| | Fish toxicity | NOEC > 10 mg/l | 28 d | Gasterosteus aculeatus | Study report (1992) | OECD Guideline 210 |
| | Crustacea toxicity | NOEC 0,16 mg/l | 21 d | Daphnia magna | Wat. Res. Vol 23, No. 4, 501-510, 1989 (1) | other: Provisional Procedure: Extended t |
| | Acute bacteria toxicity | EC50 1600 mg/l () | 0,5 h | activated sludge of a predominantly domestic sewag | Study report (1989) | other: EC protocol as published O.J. 30 |

12.2. Persistence and degradability

93 - 95 %; 28 d

OECD 301C

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

log Pow: -2,04

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|-----------------|---------|
| 107-15-3 | ethylenediamine | -1,62 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific

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to the industry and process.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1604 |
| 14.2. UN proper shipping name: | ETHYLENEDIAMINE |
| 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 |

Inland waterways transport (ADN)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1604 |
| 14.2. UN proper shipping name: | ETHYLENEDIAMINE |
| 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 |

Marine transport (IMDG)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1604 |
| 14.2. UN proper shipping name: | ETHYLENEDIAMINE |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | II |
| Hazard label: | 8+3 |
| 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 1604 |
| 14.2. UN proper shipping name: | ETHYLENEDIAMINE |
| 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 |

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU regulatory information

Authorisations (REACH, annex XIV):

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

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

Additional information

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 3: Acute toxicity, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1B: Skin corrosion, sub-category 1B

Eye Dam. 1: Serious eye damage, hazard category 1

Resp. Sens. 1: Respiratory sensitisation, hazard category 1

Skin Sens. 1: Skin sensitisation, hazard category 1

Skin Sens. 1B: Skin sensitisation, hazard category 1B

Resp. Sens. 1B: Respiratory sensitisation, hazard category 1B

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H302+H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Further Information

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product

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named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.