

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: A0705 Issue date: 18/06/2024 Revision date: 18/06/2024 Supersedes version of: 30/11/2020 Version: 3.0

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

1.1. Product identifier

| Product form | : Substance |
|-------------------------------|---|
| Trade name | : Aspartic acid (L-) |
| EC-No. | : 200-291-6 |
| CAS-No. | : 56-84-8 |
| REACH registration No. | : 01-2119966139-27 |
| Product code | : A0705 |
| Formula | : C ₄ H ₇ NO ₄ |
| Product group | : Raw material |
| Other means of identification | : L-ASP |

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

1.2.1. Relevant identified uses

| Main use category | : Professional use |
|----------------------------------|--|
| Industrial/Professional use spec | : For professional use only. Duchefa Biochemie B.V. products are intended only |
| | for "in vitro laboratory" research purposes. |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

1.4. Emergency telephone number

Emergency number

: Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00)

+31(0)6-30008100 (outside office hours)

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|---|--|--|---|
| | World Health Organization world directory of poison centres | http://apps.who.int/poiso ncentres/ | | Consult website for a local poison centre |
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Mono-constituent

| Name | Product identifier | % |
|------|---|--------|
| | CAS-No.: 56-84-8 EC-No.: 200-291-6 REACH-no: 01- 2119966139-27 | ≥ 98,5 |

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| | |

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

No additional 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

: Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Under fire conditions, hazardous fumes will be present: - COx. - NOx. fire

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5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Selfcontained breathing apparatus. Complete protective clothing.

| SECTION 6: Accidental release measures | | |
|--|---|--|
| 6.1. Personal precautions, protective equipment and emergency procedures | | |
| General measures | : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. | |
| 6.1.1. For non-emergency personne | l de la construcción de la constru | |
| Emergency procedures | : Ventilate spillage area. | |
| Measures in case of dust release | : Use good housekeeping practices to avoid rendering dust airborne. | |
| 6.1.2. For emergency responders | | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | |
| 6.2. Environmental precautions | | |

Prevent entry to sewers and public waters. Avoid release to the environment.

| 6.3. Methods and material for co | ontainment and cleaning up |
|--|--|
| Methods for cleaning up Other information | : Mechanically recover the product. : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections | |

For further information refer to section 8.

| SECTION 7: Handling and s | storage |
|----------------------------------|---|
| 7.1. Precautions for safe hand | lling |
| Precautions for safe handling | Wear personal protective equipment. Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage | ge, including any incompatibilities |
| Storage conditions | : Store in dry, well-ventilated area. Keep container tightly closed. Protect materia from direct sunlight. Store at room temperature. |

7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Aspartic acid (L-) (56-84-8) | |
|---|-----------------------|
| Bulgaria - Occupational Exposure Limits | |
| Local name | Аспарагинова киселина |
| OEL TWA | 10 mg/m ³ |

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Regulatory reference

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| ended by Regulation (EU) 2020/878 | |
|---|--|
| Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.) | |

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| | 28 от 2024 г., в сила от 05.04.2024 г.) |
|---------------------------------------|--|
| Latvia - Occupational Exposure Limits | |
| Local name | Asparagīnskābe (2-aminodzintarskābe) |
| OEL TWA | 10 mg/m ³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

| Aspartic acid (L-) (56-84-8) | | |
|--|-------------------------|--|
| DNEL/DMEL (Workers) | | |
| Long-term - systemic effects, dermal | 29 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 206 mg/m ³ | |
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, dermal | 18 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 61 mg/m ³ | |
| Long-term - systemic effects, dermal | 18 mg/kg bodyweight/day | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0,1 mg/l | |
| PNEC aqua (marine water) | 0,01 mg/l | |
| PNEC aqua (intermittent, freshwater) | 1,1 mg/l | |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 0,08 mg/kg dwt | |
| PNEC sediment (marine water) | 0,008 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 0,02 mg/kg dwt | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 3,4 mg/l | |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection

| Туре | Field of application | Characteristics | Standard |
|----------------|----------------------|-----------------|----------|
| Safety glasses | Dust | | EN 166 |

8.2.2.2. Skin protection

Skin and body protection:

In case of possible repeated skin contact wear protective clothing

| Hand protection | | | | | |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,11 | | EN ISO 374 |

8.2.2.3. Respiratory protection

| Respiratory protection | | | |
|------------------------|-------------|-----------------|----------|
| Device | Filter type | Condition | Standard |
| Dust mask | Type P1 | Dust protection | EN 143 |

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state Colour Appearance Molecular mass Odour Odour threshold Melting point Freezing point Boiling point Flammability | Solid White. Crystals. Powder. 133,1 g/mol Not available Not available 270 - 271 °C Not applicable Not available Not available Not available Not available Not available |
|--|--|
| Freezing point | : Not applicable |
| 5. | |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not available |
| pH | : 2,5 - 3,5 |
| pH solution concentration | : 0,4 % 20 °C |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Water: 5 g/l |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |

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| Partition coefficient n-octanol/water (Log | : -3,89 |
|--|----------------------------|
| Pow) | |
| Vapour pressure | : 0,000035 Pa Temp.: 25 °C |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not applicable |
| Particle size | : Not available |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes: - COx. - NOx.

| SECTION 11: Toxicological information | | |
|--|---|--|
| 11.1. Information on hazard cla | sses as defined in Regulation (EC) No 1272/2008 | |
| Acute toxicity (oral) Acute toxicity (dermal) | : Not classified : Not classified | |
| Acute toxicity (inhalation) | : Not classified | |
| Aspartic acid (L-) (56-84-8) | | |
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Skin corrosion/irritation | : Not classified pH: 2,5 – 3,5 | |
| Serious eye damage/irritation | : Not classified pH: 2,5 – 3,5 | |
| Respiratory or skin sensitisation | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| STOT-single exposure | : Not classified | |

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| STOT-repeated exposure | : Not classified |
|--|--|
| Aspartic acid (L-) (56-84-8) | |
| NOAEL (oral, rat, 90 days) | 3565,1 mg/kg bodyweight/day |
| Aspiration hazard | : Not classified |
| Aspartic acid (L-) (56-84-8) | |
| Viscosity, kinematic | Not applicable |
| 11.2. Information on other hazards | |
| 11.2.1. Endocrine disrupting properties | |
| Adverse health effects caused by endocrine disrupting properties | : The substance/mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated |

concentration equal to or greater than 0,1 %

Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a

11.2.2. Other information

No additional information available

| SECTION 12: Ecological informatio | n |
|--|---|
| 12.1. Toxicity | |
| Hazardous to the aquatic environment, : short-term (acute) | The product is not considered harmful to aquatic organisms nor to cause long- term adverse effects in the environment. Not classified |
| Hazardous to the aquatic environment, long- : term (chronic) | |
| Aspartic acid (L-) (56-84-8) | 1 |
| LC50 - Fish [1] | 2,8 mg/l Brachydanio rerio (zebra-fish) |
| 12.2. Persistence and degradability | |
| Aspartic acid (L-) (56-84-8) | |
| Biodegradation | 60 % |
| 12.3. Bioaccumulative potential | |
| Aspartic acid (L-) (56-84-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -3,89 |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessment | nent |
| No additional information available | |
| 12.6. Endocrine disrupting properties | |
| Adverse effects on the environment caused : by endocrine disrupting properties | The substance/mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %. |

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12.7. Other adverse effects

Other adverse effects Additional information : Moderately toxic to aquatic life.

: Prevent entry to sewers and public waters. Avoid release to the environment

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of this material and its container to hazardous or special waste collection point. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

| ADR | IMDG | ΙΑΤΑ |
|-----------------------------|-----------------|----------------|
| 14.1. UN number or ID | number | |
| Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippi | ng name | |
| Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard | l class(es) | |
| Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Not applicable | Not applicable | Not applicable |
| No supplementary inform | ation available | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

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REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

| Water hazard class (WGK) | : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 6704). |
|---|--|
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject to the Hazardous Incident Ordinance (12. BImSchV) |
| Netherlands | |
| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed |
| SZW-lijst van mutagene stoffen | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : The substance is not listed |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | | |
|-----------------------|--|----------|----------|--|
| Section | Changed item | Change | Comments | |
| | Supersedes | Modified | | |
| | Revision date | Modified | | |
| | Flammability | Added | | |
| | Regulatory framework | Added | | |
| | Concentration of the solution used for the pH measurement | Added | | |
| | Adverse health effects caused by endocrine disrupting properties | Added | | |

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| Indication of changes | | | | |
|-----------------------|---|----------|----------|--|
| Section | Changed item | Change | Comments | |
| | Substance type | Added | | |
| 1.1 | Other means of identification | Added | | |
| 1.1 | Product group | Added | | |
| 1.1 | Formula | Modified | | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Added | | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Removed | | |
| 3 | Composition/information on ingredients | Modified | | |
| 4.1 | First-aid measures after skin contact | Added | | |
| 4.1 | First-aid measures after inhalation | Added | | |
| 4.1 | First-aid measures after ingestion | Added | | |
| 4.1 | First-aid measures after eye contact | Added | | |
| 4.3 | Other medical advice or treatment | Added | | |
| 5.1 | Suitable extinguishing media | Added | | |
| 5.3 | Protection during firefighting | Added | | |
| 6.1 | Protective equipment | Added | | |
| 6.1 | Emergency procedures | Added | | |
| 6.3 | Methods for cleaning up | Added | | |
| 6.3 | Other information | Added | | |
| 6.4 | Reference to other sections (8, 13) | Added | | |
| 7.1 | Hygiene measures | Added | | |
| 7.1 | Precautions for safe handling | Modified | | |
| 7.2 | Storage conditions | Modified | | |
| 8 | Regulatory reference | Added | | |
| 8 | Regulatory reference | Added | | |
| 8.1 | OEL TWA | Added | | |
| 8.1 | Local name | Added | | |
| 8.1 | OEL TWA | Added | | |
| 8.1 | Local name | Added | | |
| 8.1 | PNEC soil | Added | | |
| 8.1 | PNEC sewage treatment plant | Added | | |
| 8.1 | PNEC sediment (marine water) | Added | | |
| 8.1 | PNEC sediment (freshwater) | Added | | |
| 8.1 | PNEC aqua (marine water) | Added | | |
| 8.1 | PNEC aqua (intermittent, freshwater) | Added | | |
| 8.1 | PNEC aqua (freshwater) | Added | | |

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| Indication of changes | | | | |
|-----------------------|--|----------|----------|--|
| Section | Changed item | Change | Comments | |
| 8.1 | Long-term - systemic effects, inhalation | Added | | |
| 8.1 | Long-term - systemic effects, inhalation | Added | | |
| 8.1 | Long-term - systemic effects, dermal | Added | | |
| 8.1 | Long-term - systemic effects, dermal | Added | | |
| 8.1 | Acute - systemic effects, dermal | Added | | |
| 8.2 | Environmental exposure controls | Added | | |
| 8.2 | Appropriate engineering controls | Added | | |
| 8.2 | Skin and body protection | Modified | | |
| 9.1 | Viscosity, kinematic | Added | | |
| 9.1 | Freezing point | Added | | |
| 9.1 | Flash point | Added | | |
| 9.1 | Explosive limits (vol %) | Added | | |
| 9.1 | Auto-ignition temperature | Added | | |
| 9.1 | рН | Modified | | |
| 9.1 | Vapour pressure | Added | | |
| 10.1 | Reactivity | Added | | |
| 10.3 | Possibility of hazardous reactions | Added | | |
| 11.1 | ATE CLP (oral) | Added | | |
| 11.1 | LD50 oral rat | Added | | |
| 12.1 | Ecology - general | Added | | |
| 12.6 | Adverse effects on the environment caused by endocrine disrupting properties | Added | | |
| 13.1 | Waste treatment methods | Modified | | |
| 15.2 | Chemical safety assessment | Added | | |
| 16 | Abbreviations and acronyms | Modified | | |
| 16 | Data sources | Modified | | |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| ATE | Acute Toxicity Estimate | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| BCF | Bioconcentration factor | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DPD | Dangerous Preparations Directive 1999/45/EC | |
| DSD | Dangerous Substances Directive 67/548/EEC | |
| ΙΑΤΑ | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |

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| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| РВТ | Persistent Bioaccumulative Toxic | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| SDS | Safety Data Sheet | |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| BLV | Biological limit value | |
| BOD | Biochemical oxygen demand (BOD) | |
| COD | Chemical oxygen demand (COD) | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC-No. | European Community number | |
| EC50 | Median effective concentration | |
| EN | European Standard | |
| IARC | International Agency for Research on Cancer | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| OECD | Organisation for Economic Co-operation and Development | |
| OEL | Occupational Exposure Limit | |
| PNEC | Predicted No-Effect Concentration | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| STP | Sewage treatment plant | |
| ThOD | Theoretical oxygen demand (ThOD) | |
| TLM | Median Tolerance Limit | |
| VOC | Volatile Organic Compounds | |
| CAS-No. | Chemical Abstract Service number | |
| N.O.S. | Not Otherwise Specified | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| ED | Endocrine disrupting properties | |

Data sources

: ECHA (European Chemicals Agency). Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Safety Data Sheet (SDS), EU Duchefa 2023

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.