

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: A0501 Issue date: 26/07/2023 Revision date: 10/07/2023 Supersedes version of: 04/04/2023 Version: 5.0

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

1.1. Product identifier

| Product form | : Substance |
|-------------------------------|-----------------------------------|
| Trade name | : Ammonium nitrate |
| EC-No. | : 229-347-8 |
| CAS-No. | : 6484-52-2 |
| REACH registration No. | : 01-2119490981-27-0012 |
| Product code | : A0501 |
| Formula | : NH ₄ NO ₃ |
| Product group | : Raw material |
| Other means of identification | : Ammonium nitrate |
| | |

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

Supplier

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 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Oxidising Solids, Category 3 | H272 |
|--|------|
| Serious eye damage/eye irritation, Category 2 | H319 |
| Full text of H- and EUH-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

No additional information available

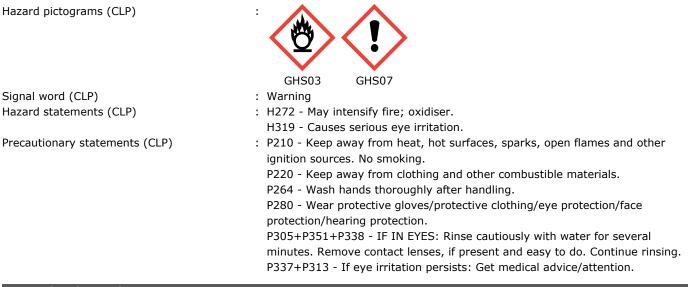
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A0501

2.2. Label elements

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



2.3. Other hazards

Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

| SECTION 3: Composition/information on ingredients | | | | |
|---|---|--------|--|--|
| 3.1. Substances | | | | |
| Substance type | : Mono-constituent | | | |
| Name | : Ammonium nitrate | | | |
| CAS-No. | : 6484-52-2 | | | |
| EC-No. | : 229-347-8 | | | |
| Name | Product identifier | % | | |
| Ammonium nitrate | CAS-No.: 6484-52-2 EC-No.: 229-347-8 | ≥ 97,5 | | |

3.2. Mixtures

Not applicable

| SECTION 4: First aid measures | |
|--|--|
| 4.1. Description of first aid measur | es |
| First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion | Never give anything by mouth to an unconscious person. Remove person to fresh air and keep comfortable for breathing. Wash with plenty of water/ Rinse immediately with plenty of water. Seek medical advice. Rinse mouth. Obtain emergency medical attention. |
| 4.2. Most important symptoms and | effects, both acute and delayed |
| Symptoms/effects | : Overexposure to this material may result in methemoglobinemia. May cause cyanosis. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| 4.3. Indication of any immediate m Treat symptomatically. | edical attention and special treatment needed |

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| SECTION 5: Firefighting measures | | | | |
|---|--|--|--|--|
| 5.1. Extinguishing media | | | | |
| Suitable extinguishing media Unsuitable extinguishing media | : High volume water jet. : Dry sand. Carbon dioxide (CO2), dry chemical powder, foam. Halons. | | | |
| 5.2. Special hazards arising from the | e substance or mixture | | | |
| Explosion hazard Hazardous decomposition products in case of fire | : Be careful of explosion risk. : Toxic fumes may be released. | | | |
| 5.3. Advice for firefighters | | | | |
| Firefighting instructions Protection during firefighting | Prevent fire fighting water from entering the environment.Do not enter fire area without proper protective equipment, including respiratory protection. | | | |

| SECTION 6: Accidental release measures | | | | |
|--|--|--|--|--|
| 6.1. Personal precautions, pro | otective equipment and emergency procedures | | | |
| General measures | : Eliminate every possible source of ignition. | | | |
| 6.1.1. For non-emergency person | nel | | | |
| Emergency procedures | : Do not breathe dust. Avoid contact with skin and eyes. | | | |
| 6.1.2. For emergency responders | | | | |
| Protective equipment | : Equip cleanup crew with proper protection. | | | |
| 6.2. Environmental precaution | 15 | | | |
| Prevent entry to sewers and public wa | aters. | | | |
| 6.3. Methods and material for | containment and cleaning up | | | |
| Methods for cleaning up | : Mechanically recover the product. | | | |
| 6.4. Reference to other sectio | ns | | | |

See Section 8.

| SECTION 7: Handling and s | torage | |
|---|---|--|
| 7.1. Precautions for safe hand | ling | |
| Precautions for safe handling Hygiene measures | : Avoid dust formation. : Do not eat, drink or smoke when using this product. | |
| 7.2. Conditions for safe storag | e, including any incompatibilities | |
| Storage conditions Storage temperature Information on mixed storage | Protect from sunlight. Store in a well-ventilated place. 15 - 25 °C Keep away from combustible materials. | |
| Precautions for safe handling : Avoid dust formation. Hygiene measures : Do not eat, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions : Protect from sunlight. Store in a well-ventilated place. Storage temperature : 15 - 25 °C | | |

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

No additional information available

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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

| Ammonium nitrate (6484-52-2) | | | |
|--|---------------------------|--|--|
| DNEL/DMEL (Workers) | | | |
| Long-term - systemic effects, dermal | 5,12 mg/kg bodyweight/day | | |
| Long-term - systemic effects, inhalation | 36 mg/m ³ | | |
| DNEL/DMEL (General population) | | | |
| Long-term - systemic effects,oral | 2,56 mg/kg bodyweight/day | | |
| Long-term - systemic effects, inhalation | 8,9 mg/m ³ | | |
| Long-term - systemic effects, dermal 2,56 mg/kg bodyweight/day | | | |
| PNEC (Water) | | | |
| PNEC aqua (freshwater) | 0,45 mg/l | | |
| PNEC aqua (marine water) | 0,045 mg/l | | |
| PNEC (STP) | | | |
| PNEC sewage treatment plant | 18 mg/l | | |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable 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:

Wear approved mask. Filter type P1 (EN 143)

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Solid |
|--|---|
| Colour | : Light yellow. |
| Molecular mass | : 80,04 g/mol |
| Odour | : Odourless. |
| Odour threshold | : Not available |
| Melting point | : 169 °C |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not available |
| Oxidising properties | : May cause fire or explosion; strong oxidiser. |
| Explosive limits | : Not applicable |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : > 210 °C |
| рН | : 5 – 6,5 |
| pH solution | : Not available |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Water: 1870 g/l |
| Partition coefficient n-octanol/water (Log | : Not available |
| Kow) | |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 1,72 g/cm ³ Type: 'density' |
| Relative density | : 1,72 |
| 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

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

React in contact of acids. React in contact of. Bases.

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10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

Nitrogen oxides.

SECTION 11: Toxicological information

| 11.1. Information on hazard classes a | s defined in Regulation (EC) No 1272/2008 |
|--|--|
| Acute toxicity (oral):Acute toxicity (dermal): | Not classified Not classified |
| Acute toxicity (inhalation) : | Not classified |
| Ammonium nitrate (6484-52-2) | |
| LD50 oral rat | > 2950 (≤) mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 88,8 mg/l |
| Ammonium nitrate (6484-52-2) | · |
| LD50 oral rat | 2950 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Skin corrosion/irritation : | Not classified pH: 5 - 6,5 |
| Ammonium nitrate (6484-52-2) | |
| рН | 5,43 Concentration: 0,1 other:M |
| Serious eye damage/irritation : | Causes serious eye irritation. pH: 5 – 6,5 |
| Ammonium nitrate (6484-52-2) | |
| рН | 5,43 Concentration: 0,1 other:M |
| Respiratory or skin sensitisation : | Not classified |
| Germ cell mutagenicity : | Not classified |
| Carcinogenicity : | Not classified |
| Reproductive toxicity : | Not classified |
| STOT-single exposure : | Not classified |
| Ammonium nitrate (6484-52-2) | |
| LOAEL (dermal, rat/rabbit) | ≥ mg/kg bodyweight |
| STOT-repeated exposure : | Not classified |
| Ammonium nitrate (6484-52-2) | |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | \geq 0,185 mg/l air Animal: rat, Animal sex: male |
| NOAEL (subchronic, oral, animal/male, 90 days) | 256 mg/kg bodyweight Animal: , Animal sex: male |
| NOAEL (subchronic, oral, animal/female, 90 days) | 284 mg/kg bodyweight Animal: , Animal sex: female |

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Aspiration hazard

: Not classified

11.2. Information on other hazards

No additional information available

| SECTION 12: Ecological information | | | |
|--|--|--|--|
| 12.1. Toxicity | | | |
| Hazardous to the aquatic environment, : Not classified short-term (acute) Hazardous to the aquatic environment, long- : Not classified term (chronic) | | | |
| Ammonium nitrate (6484-52-2) | | | |
| LC50 - Fish [1] | 447 mg/l Cyprinus carpio (Common carp) | | |
| EC50 - Crustacea [1] | 490 mg/l EC50 48h - Daphnia magna [mg/l] | | |
| EC50 - Other aquatic organisms [1] | 490 mg/l Test organisms (species): | | |
| ErC50 algae | > 1700 mg/l 10 days | | |
| NOEC (chronic) | 555 mg/l 7 days, (Bullia digitalis) | | |
| Ammonium nitrate (6484-52-2) | | | |
| LC50 - Fish [1] | 6000 mg/l Source: HSDB | | |
| EC50 - Crustacea [1] | 490 mg/l Test organisms (species): Daphnia magna | | |
| 12.2. Persistence and degradability | | | |
| Ammonium nitrate (6484-52-2) | | | |
| Persistence and degradability | Not established. | | |
| 12.3. Bioaccumulative potential | | | |
| Ammonium nitrate (6484-52-2) | | | |
| Bioaccumulative potential | Not established. | | |
| 12.4. Mobility in soil | | | |
| No additional information available | | | |
| 12.5. Results of PBT and vPvB assessment | | | |
| No additional information available | | | |
| 12.6. Endocrine disrupting properties | | | |
| No additional information available | | | |
| 12.7. Other adverse effects | | | |
| No additional information available | | | |

| SECTION 13: Disposal considerations | | | |
|-------------------------------------|--|--|--|
| 13.1. Waste treatment methods | | | |
| Regional legislation (waste) | : Disposal must be done according to official regulations. | | |
| European List of Waste (LoW) code | : 06 10 02* - wastes containing dangerous substances | | |

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

| UN-No. (ADR) | : | UN 1942 |
|---------------|---|---------|
| UN-No. (IMDG) | : | UN 1942 |
| UN-No. (IATA) | : | UN 1942 |

14.2. UN proper shipping name

| Proper Shipping Name (ADR) | : AMMONIUM NITRATE |
|---------------------------------------|---|
| Proper Shipping Name (IMDG) | : AMMONIUM NITRATE |
| Proper Shipping Name (IATA) | : Ammonium nitrate |
| Transport document description (ADR) | : UN 1942 AMMONIUM NITRATE, 5.1, III, (E) |
| Transport document description (IMDG) | : UN 1942 AMMONIUM NITRATE, 5.1, III |
| Transport document description (IATA) | : UN 1942 Ammonium nitrate, 5.1, III |

14.3. Transport hazard class(es)

| ADR Transport hazard class(es) (ADR) Danger labels (ADR) | : 5.1 : 5.1 : 5.1 |
|--|-----------------------------------|
| IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG) | : 5.1 : 5.1 : 5.1 |
| IATA Transport hazard class(es) (IATA) Danger labels (IATA) | : 5.1 : 5.1 : 5 1 |

| 14.4. Packing group | | | |
|--|--|--|--|
| Packing group (ADR) Packing group (IMDG) Packing group (IATA) | : III : III : III | | |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment Marine pollutant Other information | : No : No : No supplementary information available | | |
| 14.6. Special precautions for user | | | |
| Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) | : O2 : 306, 611 : 5kg | | |

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| Excepted quantities (ADR) | : E1 |
|---|--|
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Operation (ADR) | : S23 |
| Hazard identification number (Kemler No.) | : 50 |
| Orange plates | [±] 50 |
| | 1942 |
| Tunnel restriction code (ADR) | : E |
| EAC code | : 1Z |
| Transport by sea | |
| Special provisions (IMDG) | : 900, 952, 967 |
| Limited quantities (IMDG) | : 5 kg |
| Excepted quantities (IMDG) | : E1 |
| EmS-No. (Fire) | : F-H : S-O |
| EmS-No. (Spillage) Stowage category (IMDG) | : 3-0 : C |
| Stowage and handling (IMDG) | : SW1, SW14, SW23 |
| Segregation (IMDG) | : SG16, SG42, SG45, SG47, SG48, SG51, SG56, SG58, SG59, SG61 |
| Properties and observations (IMDG) | Crystals, granules or prills. Soluble in water. Supporter of combustion. A major fire aboard a ship carrying this substance may involve a risk of explosion in the event of contamination (e.g. by fuel oil) or strong confinement. An adjacent detonation may also involve the risk of explosion. If heated strongly, decomposes, giving off toxic gases and gases which support combustion. Transport of AMMONIUM NITRATE liable to self heating sufficient to initiate decomposition is prohibited. |
| MFAG-No | : 140 |
| Air transport | |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y546 |
| PCA limited quantity max net quantity (IATA) | - |
| PCA packing instructions (IATA) | : 559 |
| PCA max net quantity (IATA) | : 25kg |
| CAO packing instructions (IATA) | : 563 . 100kg |
| CAO max net quantity (IATA) | : 100kg : A64 |
| Special provisions (IATA) ERG code (IATA) | : A64 : 5L |
| | , JL |

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

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

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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)

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information

: Directive 2012/18/EU (SEVESO III)

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which shall not be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

| Name | CAS-No. | Limit value | Upper limit value for licensing under Article 5(3) | Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|------------------|-----------|-------------|--|--|---|
| Ammonium nitrate | 6484-52-2 | 45,7 % w/w | No licensing permitted | 3102 30 10 (in aqueous solution); 3102 30 90 (other) | ex 3824 99 96 |

Please see https://ec.europa.eu/home-affairs/system/files/2021-

11/list_of_competent_authorities_and_national_contact_points_en.pdf

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

Ensure all national/local regulations are observed.

Germany

| Water hazard class (WGK) | : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 212). |
|---|---|
| Chemicals Prohibition Ordinance (ChemVerbotsV) | : This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of 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 |

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| SZW-lijst van reprotoxische stoffen – | : The substance is not listed |
|---------------------------------------|-------------------------------|
| Vruchtbaarheid | |
| SZW-lijst van reprotoxische stoffen – | : The substance is not listed |
| Ontwikkeling | |

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | | |
|-----------------------|--|----------|----------|--|
| Section | Changed item | Change | Comments | |
| | Substance type | Added | | |
| 1.1 | Formula | Modified | | |
| 1.1 | Other means of identification | Added | | |
| 2.2 | Precautionary statements (CLP) | Modified | | |
| 9.1 | Density | Added | | |
| 11.1 | LD50 oral rat | Modified | | |
| 11.1 | LOAEL (dermal, rat/rabbit) | Added | | |
| 11.1 | LC50 Inhalation - Rat | Modified | | |
| 11.1 | NOAEL (subchronic, oral, animal/female, 90 days) | Added | | |
| 11.1 | NOAEL (subchronic, oral, animal/male, 90 days) | Added | | |
| 11.1 | NOAEC (inhalation, rat, dust/mist/fume, 90 days) | Added | | |
| 12.1 | EC50 - Other aquatic organisms [1] | Added | | |

| 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 | |
| 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 | |

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| Abbreviations and acronyms: | | |
|-----------------------------|-------------------|--|
| SDS | Safety Data Sheet | |
| | | |

Data sources

: Manufacturer.

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| H272 | May intensify fire; oxidiser. | |
| H319 | Causes serious eye irritation. | |
| Ox. Sol. 3 | Oxidising Solids, Category 3 | |

Safety Data Sheet (SDS), EU Duchefa 2023