

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

1.1. Product identifier

| | |
|-----------------------|--|
| Product form | : Substance |
| Trade name | : DIAMMONIUM PHOSPHATE LAFFORT |
| Chemical name | : Diammonium hydrogen phosphate |
| EC-No. | : 231-987-8 |
| CAS-No. | : 7783-28-0 |
| REACH registration No | : 01-2119490974-22 |
| Formula | : (NH ₄) ₂ HPO ₄ |
| Synonyms | : DAP, ammonium monohydrogen phosphate, ammonium phosphate dibasic |
| Product group | : Trade product |

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 users only |
| Use of the substance/mixture | : Alcoholic fermentation activator. |
| Use of the substance/mixture | : For œnological use |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

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Supplier

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T +1 (707) 775 4530

laffortusa@laffort.com - www.laffortusa.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|---|--------------------------------------|--|
| Australia | NSW Poisons Information Centre The Children's Hospital at Westmead | Locked Bag 4001 NSW 2145 Westmead | 13 11 26 | |
| Canada | Ontario Poison Centre (OPC) | The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto | 1-800-268-9017 (416) 813-5900 | |
| Canada | BC Drug and Poison Information Centre (DPIC) | 655 West 12th Avenue BC V5Z 4R4 Vancouver | 1-800-567-8911 (604) 682-5050 | |
| China | National Poison Control Center | Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing | +86 10 831 32 046 | |
| Croatia | Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada | Ksaverska Cesta 2 p.p. 291 10000 Zagreb | +385 1 234 8342 | Information available 24/7 in Croatian and English |
| Czech Republic | Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK | Na Bojišti 1 120 00 Praha 2 | +420 224 919 293 +420 224 915 402 | |
| Denmark | Giftlinjen | Bispebjerg Bakke 23 Opgang 20 C 2400 København NV | +45 82 12 12 12 | |
| Georgia | National Toxicology Information Advisory Center | Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi | +995 99 533320 | |
| Greece | Poisons Information Centre Children's Hospital P&A Kyriakou | 11762 Athens | +30 2 10 779 3777 | |
| Hungary | Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat | Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest | +36 80 20 11 99 | |
| Israel | Israel Poison Information Center Rambam Health Care Campus | 6 Ha'Aliya Street 31096 Haifa | +972 4 854 1900 | |
| Japan | Japan Poison Information Center | Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki | +81-29-856-3566 +81-72-727-2499 | |
| Jordan | National Drug & Poison Information Center of Jordan | | 0798506755 00962-6-5353444 | |
| Kazakhstan | Republican Toxicology Center | Tole-bi 93 480083 Almaty | +7 3272 925 868 | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | +356 2545 6504 | |
| New Zealand | National Poisons Centre | Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin | 0800 764 766 +56 2 2 247 3600 | |
| Poland | National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź) | ul. Teresy 8 P.O. BOX 199 90950 Łódź | +48 42 63 14 724 | |

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| Country | Organisation/Company | Address | Emergency number | Comment |
|--------------------------|--|---|-------------------------------------|---|
| Romania | Department of Clinical Toxicology Spitalul de Urgenta Floreasca | Calea Floreasca Bucuresti | +40 21 230 8000 | |
| Russia | Информационно-консультативный центр по токсикологии (RTIAC) Министерство здравоохранения Российской Федерации | 3 Сухареvская Площадь Блок 7 129090 г. Москва | +7 495 628 1687 (только на русском) | |
| Serbia | Nacionalni centar za kontrolu trovanja - VMA | Crnotravska 17 11000 Beograd | +381 11 360 84 40 | |
| Slovenia | Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL | Zaloška 7 1000 Ljubljana | +386 522 52 83 | |
| South Africa | Tygerberg Poison Information Centre | Division of Clinical Pharmacology Faculty of Medicine and Health Sciences Stellenbosch University - PO Box 241 8 000 Cape Town | 0861 555 777 +56 2 2 247 3600 | |
| Sweden | Giftinformationscentralen | Solna Strandväg 21 171 54 Solna | 112 – begär Giftinformation | |
| Turkey | Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzısıhha Merkezi Başkanlığı | Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara | 114 | Information is provided to public and medical personnel on poisoning incidents via 114. |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Cardiff Centre) University Hospital Llandough | Penlan Road CF64 2XX Llandough | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh | Little France Crescent EH16 4SA Edinburgh | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre | 16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle | 0344 892 0111 | Only for healthcare professionals |
| United States of America | American Association of Poison Control Centers | 515 King St., Suite 510 VA 22314 Alexandria | 1-800-222-1222 +56 2 2 247 3600 | |

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

No additional information available

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2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

No labelling applicable

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_Phosphate_Laffort
CAS-No. : 7783-28-0
EC-No. : 231-987-8

| Name | Product identifier | % |
|----------------------|---|-----|
| Diammonium Phosphate | CAS-No.: 7783-28-0 EC-No.: 231-987-8 REACH-no: 01-2119490974-22 | 100 |

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If symptoms persist call a doctor.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap. Do not use solvents or thinners. Take off contaminated clothing and wash it before reuse. If symptoms persist, call a physician.
First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not give anything to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : More detailed information: See section 11.

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), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : On exposure to high temperature, may decompose, releasing toxic gases.
Hazardous decomposition products in case of fire : Fire will produce dense black smoke. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO_x), ammonia. Phosphorus oxides.

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5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| General measures | : Evacuate personnel to a safe area. |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. |
| Measures in case of dust release | : Avoid dust formation. |
| 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.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water. |
| Other information | : Dispose of materials or solid residues at an authorized site. Do not allow to enter drains or water courses. |

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from ignition sources (including static discharges). |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Technical measures | : Keep only in the original container. |
| Storage conditions | : Store tightly closed in a dry and cool place. Keep in a well-ventilated room. Store away from heat/moisture. Keep away from combustible material. |
| Heat and ignition sources | : Keep away from ignition sources (including static discharges). |

7.3. Specific end use(s)

For œnological use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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| | |
|--|------------------------|
| Diammonium Phosphate (7783-28-0) | |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 1,25 mg/m ³ |

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

| | |
|---|---------------------------|
| DIAMMONIUM PHOSPHATE LAFFORT (7783-28-0) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 34,7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 6,1 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 2,1 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1,8 mg/m ³ |
| Long-term - systemic effects, dermal | 20,8 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 1,7 mg/l |
| PNEC aqua (marine water) | 0,17 mg/l |
| PNEC aqua (intermittent, freshwater) | 17 mg/l |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 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. Avoid dust formation.

8.2.2. Personal protection equipment

Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Where excessive dust may result, wear goggles

| | | | |
|-----------------------|-----------------------------|------------------------|-----------------|
| Eye protection | | | |
| Type | Field of application | Characteristics | Standard |
| Safety glasses | Dust | | EN 166 |

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8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. Wear suitable protective clothing

Hand protection:

Protective gloves. Nitrile rubber gloves

| Hand protection | | | | | |
|--|--|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Chemically resistant protective gloves | Nitrile rubber (NBR), Chloroprene rubber (CR), Polyvinylchloride (PVC) | 6 (> 480 minutes) | >0.4 | | EN ISO 374 |

Other skin protection

Materials for protective clothing:

Antistatic clothing. EN 340. EN 1149

8.2.2.3. Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not allow into drains or water courses. Avoid release to the environment.

Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------|
| Physical state | : Solid |
| Colour | : white. |
| Appearance | : Crystals. Powder. |
| Molecular mass | : 132 g/mol |
| Odour | : odourless. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Explosive properties | : Not explosive. |
| Oxidising properties | : Non oxidizing. |
| 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 | : 150 °C |
| pH | : 7,8 – 8,4 |
| pH solution | : Not available |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Water: 690 g/l 20 °C |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : 0,0762 Pa 20 °C |
| Vapour pressure at 50 °C | : Not available |

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| | |
|----------------------------------|-----------------------|
| Density | : 1 g/cm ³ |
| Relative density | : 1,62 |
| Relative vapour density at 20 °C | : Not applicable |
| Particle size | : Not available |
| Particle size distribution | : Not available |
| Particle shape | : Not available |
| Particle aspect ratio | : Not available |
| Particle aggregation state | : Not available |
| Particle agglomeration state | : Not available |
| Particle specific surface area | : Not available |
| Particle dustiness | : 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 of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

10.5. Incompatible materials

oxidants, strong acids and strong bases.

10.6. Hazardous decomposition products

See Section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Diammonium Phosphate (7783-28-0) | |
|----------------------------------|--|
| LD50 oral rat | > 2000 mg/kg OECD 425 |
| LD50 dermal rat | > 5000 mg/kg OECD 402 |
| LC50 Inhalation - Rat | > 5000 mg/m ³ 4H - OECD 403 |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not irritating to rabbits on cutaneous application pH: 7,8 – 8,4 |
| Serious eye damage/irritation | : Not irritating pH: 7,8 – 8,4 |
| Respiratory or skin sensitisation | : Did not cause sensitisation |

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| | |
|------------------------|-----------------------------------|
| Germ cell mutagenicity | : Mutagenicity tests are negative |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

| | |
|---|-----------------------------------|
| Diammonium Phosphate (7783-28-0) | |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight/day OECD 422 |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - water | : Ecological problems are not known or expected under normal use. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| | |
|---|--------------------|
| Diammonium Phosphate (7783-28-0) | |
| LC50 - Fish [1] | 1700 mg/l OECD 203 |
| EC50 - Crustacea [1] | 1790 mg/l |

12.2. Persistence and degradability

| | |
|---|-----------------|
| Diammonium Phosphate (7783-28-0) | |
| Persistence and degradability | Not applicable. |

12.3. Bioaccumulative potential

| | |
|---|----------------------|
| Diammonium Phosphate (7783-28-0) | |
| Bioaccumulative potential | Low mobility (soil). |

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

| | |
|-----------------------|---|
| Other adverse effects | : Do not allow to enter drains or water courses |
|-----------------------|---|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Empty remaining contents. Dispose of contents/container in accordance with licensed collector's sorting instructions. |

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

| | |
|---------------|-----------------|
| UN-No. (ADR) | : Not regulated |
| UN-No. (IMDG) | : Not regulated |
| UN-No. (IATA) | : Not regulated |
| UN-No. (ADN) | : Not regulated |
| UN-No. (RID) | : Not regulated |

14.2. UN proper shipping name

| | |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR) | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN) | : Not regulated |
| Proper Shipping Name (RID) | : Not regulated |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADR) | : Not regulated |
|----------------------------------|-----------------|

IMDG

| | |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IMDG) | : Not regulated |
|-----------------------------------|-----------------|

IATA

| | |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IATA) | : Not regulated |
|-----------------------------------|-----------------|

ADN

| | |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADN) | : Not regulated |
|----------------------------------|-----------------|

RID

| | |
|----------------------------------|-----------------|
| Transport hazard class(es) (RID) | : Not regulated |
|----------------------------------|-----------------|

14.4. Packing group

| | |
|----------------------|-----------------|
| Packing group (ADR) | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN) | : Not regulated |
| Packing group (RID) | : Not regulated |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

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Rail transport

Not regulated

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

No REACH Annex XVII restrictions

DIAMMONIUM PHOSPHATE LAFFORT is not on the REACH Candidate List

DIAMMONIUM PHOSPHATE LAFFORT is not on the REACH Annex XIV List

DIAMMONIUM PHOSPHATE LAFFORT is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

DIAMMONIUM PHOSPHATE LAFFORT is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 7150)

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

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

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

Switzerland

Storage class (LK) : NG - Non-hazardous

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

No additional information available

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.