



Quasar 705 Amidite

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 1/6/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Quasar 705 Amidite
Product code : BNS-5067
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 use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Biosearch Technologies, Inc
2199 South McDowell Boulevard
Petaluma, CA 94954-6904
USA

LGC Genomics LLC
2905 Parmenter Street
Middleton, WI 53562
U.S.A.
Phone: (608) 831-9011
Fax: (608) 831-9012
E-mail: techserv@lucigen.com

Only Representative

Biosearch Technologies, Inc
Unit 1-2 Trident Industrial Estate, Pindar Road
Hoddesdon, EN110WZ
England
44 1992 470757

1.4. Emergency telephone number

Emergency numbers : 1-888-575-9695 (Monday-Friday, 8:00AM-5:00PM)
44 1992 470757(Monday-Friday, 9:00AM-5:00PM) EU

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|--|------|
| Acute toxicity (oral), Category 4 | H302 |
| Skin corrosion/irritation, Category 1, Sub-Category 1B | H314 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Respiratory sensitisation, Category 1 | H334 |
| Skin sensitisation, Category 1 | H317 |
| Germ cell mutagenicity, Category 2 | H341 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : Hexanoic acid, 6-bromo-; Iodoethane; Phosphate(1-), hexafluoro-, potassium; 2-(2-Aminoethoxy)ethanol; 1H-Benz[e]indole, 1,1,2-trimethyl; Phosphorodiamidous acid, tetrakis(1-methylethyl)-,2-cyanoethyl ester; Malonaldehyde Dianilide Hydrochloride
- : H302 - Harmful if swallowed.
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.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
- : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling..
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - Wear respiratory protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

The 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------|--|
| 1H-Benz[e]indole, 1,1,2-trimethyl | CAS-No.: 41532-84-7 EC-No.: 255-429-8 | 30 – 60 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Phosphate(1-), hexafluoro-, potassium | CAS-No.: 17084-13-8 EC-No.: 241-143-0 | 10 – 30 | Acute Tox. 4 (Oral), H302 |
| Phosphorodiamidous acid, tetrakis(1-methylethyl)-,2-cyanoethyl ester | CAS-No.: 102691-36-1 EC-No.: 600-337-9 | 10 – 30 | Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Hexanoic acid, 6-bromo- | CAS-No.: 4224-70-8 | 7 – 13 | Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| 2-(2-Aminoethoxy)ethanol | CAS-No.: 929-06-6 EC-No.: 213-195-4 | 7 – 13 | Acute Tox. 4 (Dermal), H312 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------|---------------------------------------|-------|---|
| Iodoethane | CAS-No.: 75-03-6 EC-No.: 200-833-1 | 1 – 5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 STOT SE 3, H335 |
| Malonaldehyde Dianilide Hydrochloride | CAS-No.: 28140-60-5 | 1 – 5 | Acute Tox. 4 (Oral), H302 |

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

SECTION 4: First Aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person. |
| First-aid measures after inhalation | : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. |
| First-aid measures after skin contact | : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention. |
| First-aid measures after eye contact | : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing. |
| First-aid measures after ingestion | : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects | : Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. Causes severe skin burns and eye damage. |
| Symptoms/effects after inhalation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Causes severe skin burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |
| Symptoms/effects after ingestion | : Harmful if swallowed. |
| Chronic symptoms | : Suspected of causing genetic defects. |

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

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Dry chemical, CO ₂ , dry sand, or alcohol-resistant foam. |
| Unsuitable extinguishing media | : Do not use direct water stream. May spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Combustible. |
| Explosion hazard | : Product is not explosive. |
| Reactivity in case of fire | : No dangerous reactions known under normal conditions of use. |
| Hazardous decomposition products in case of fire | : No information available. |

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5.3. Advice for firefighters

- Firefighting instructions : Fight fire with normal precautions from a reasonable distance.
Protection during firefighting : Avoid breathing smoke, fumes, and decomposition products. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid breathing and contact with skin and eyes. Evacuate area. Keep upwind.

6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Follow all regulations regarding releases into the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Clean up by scraping or collecting as material will be solid at room temperature.
Methods for cleaning up : Collect spillage.
Other information : No data available.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes, inhalation of vapours and mists. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a ventilated area, far from open flames and areas where danger of fire exists. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

2-(2-Aminoethoxy)ethanol (929-06-6)

Germany - Occupational Exposure Limits (TRGS 900)

| | |
|-------------------|---|
| AGW (OEL TWA) [1] | 0.87 mg/m ³ (sum of vapor and aerosol) |
| AGW (OEL TWA) [2] | 0.2 ppm (sum of vapor and aerosol) |

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| 2-(2-Aminoethoxy)ethanol (929-06-6) | |
|--|------------------------------------|
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 0.87 mg/m ³ |
| OEL TWA [ppm] | 0.2 ppm |
| OEL STEL | 0.87 mg/m ³ |
| OEL STEL [ppm] | 0.2 ppm |
| Chemical category | Potential for cutaneous absorption |

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles [EN166]

8.2.2.2. Skin protection

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005].

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves should be recommended by the glove supplier.

8.2.2.3. Respiratory protection

Respiratory protection:

Use European Standard EN 529:2005 (or other equivalent national standard) -approved dust/particulate respirator. Where vapour, mist, or dust exceed PELs or other applicable OELs, use EN 529 approved respiratory protective equipment.

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8.2.2.4. Thermal hazards

Thermal hazard protection:

No data 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 |
| Appearance | : Powder. |
| Colour | : Blue-Green. |
| Odour | : None. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Contact with certain metals.

10.5. Incompatible materials

May be corrosive to metals.

10.6. Hazardous decomposition products

No data available.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Quasar 705 Amidite | |
|--------------------|--------------|
| ATE CLP (oral) | 1801.6 mg/kg |

| Phosphate(1-), hexafluoro-, potassium (17084-13-8) | |
|--|---|
| LD50 oral rat | ≈ 1400 mg/kg bodyweight Animal: rat, Animal sex: male |

| 2-(2-Aminoethoxy)ethanol (929-06-6) | |
|-------------------------------------|-------------------------|
| LD50 oral rat | 3 g/kg |
| LD50 dermal rabbit | 1260 mg/kg |
| LC50 Inhalation - Rat | > 8.7 mg/m ³ |

| Malonaldehyde Dianilide Hydrochloride (28140-60-5) | |
|--|--------------|
| LD50 oral rat | ≈ 1380 mg/kg |

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity : Suspected of causing genetic defects.
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| Phosphate(1-), hexafluoro-, potassium (17084-13-8) | |
|--|--|
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

12.2. Persistence and degradability

| Quasar 705 Amidite | |
|-------------------------------|---------------------------|
| Persistence and degradability | No information available. |

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12.3. Bioaccumulative potential

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| | |
|---------------------------|---------------------------|
| Bioaccumulative potential | No information available. |
|---------------------------|---------------------------|

12.4. Mobility in soil

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| | |
|----------------|---------------------------|
| Ecology - soil | No information available. |
|----------------|---------------------------|

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The 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

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

Product/Packaging disposal recommendations : Dispose of in accordance with local/national regulations.

SECTION 14: Transport information

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

14.1. UN number

| | |
|---------------|-----------|
| UN-No. (ADR) | : UN 3261 |
| UN-No. (IMDG) | : UN 3261 |
| UN-No. (IATA) | : UN 3261 |
| UN-No. (ADN) | : UN 3261 |
| UN-No. (RID) | : UN 3261 |

14.2. UN proper shipping name

| | |
|---------------------------------------|---|
| Proper Shipping Name (ADR) | : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (IMDG) | : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (IATA) | : Corrosive solid, acidic, organic, n.o.s. |
| Proper Shipping Name (ADN) | : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (RID) | : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. |
| Transport document description (ADR) | : UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Cyanoeethyl tetraisopropyl phosphordiamidite), 8, II, (E) |
| Transport document description (IMDG) | : UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Cyanoeethyl tetraisopropyl phosphordiamidite), 8, II |
| Transport document description (IATA) | : UN 3261 Corrosive solid, acidic, organic, n.o.s. (Cyanoeethyl tetraisopropyl phosphordiamidite), 8, II |
| Transport document description (ADN) | : UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Cyanoeethyl tetraisopropyl phosphordiamidite), 8, II |

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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

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


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14.6. Special precautions for user

Overland transport (ADR)

| | |
|---|---|
| Transport regulations (ADR) | : Subject to the provisions |
| Classification code (ADR) | : F |
| Special provisions (ADR) | : 274 |
| Limited quantities (ADR) | : 1kg |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P002, IBC08 |
| Special packing provisions (ADR) | : B4 |
| Mixed packing provisions (ADR) | : MP10 |
| Portable tank and bulk container instructions (ADR) | : T3 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : SGAN, L4BN |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Bulk (ADR) | : V11 |
| Hazard identification number (Kemler No.) | : 80 |
| Orange plates | :  |
| Tunnel restriction code (ADR) | : E |
| EAC code | : 2X |

Transport by sea (IMDG)

| | |
|------------------------------------|---|
| Transport regulations (IMDG) | : Subject to the provisions |
| Special provisions (IMDG) | : 274 |
| Limited quantities (IMDG) | : 1 kg |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P002 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B21, B4 |
| Tank instructions (IMDG) | : T3 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : B |
| Segregation (IMDG) | : SGG1, SG36, SG49 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes |

Air transport (IATA)

| | |
|--|-----------------------------|
| Transport regulations (IATA) | : Subject to the provisions |
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y844 |
| PCA limited quantity max net quantity (IATA) | : 5kg |
| PCA packing instructions (IATA) | : 859 |
| PCA max net quantity (IATA) | : 15kg |
| CAO packing instructions (IATA) | : 863 |
| CAO max net quantity (IATA) | : 50kg |
| Special provisions (IATA) | : A3, A803 |
| ERG code (IATA) | : 8L |

Inland waterway transport

| | |
|---------------------------|----------|
| Classification code (ADN) | : C4 |
| Special provisions (ADN) | : 274 |
| Limited quantities (ADN) | : 1 kg |
| Excepted quantities (ADN) | : E2 |
| Equipment required (ADN) | : PP, EP |

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Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C4
Special provisions (RID) : 274
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E2
Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAN, L4BN
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W11
Special provisions for carriage – Bulk (RID) : VC1, VC2
Colis express (express parcels) (RID) : CE10
Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

EU restriction list (REACH Annex XVII)

| Reference code | Applicable on |
|----------------|--|
| 3(b) | Phosphate(1-), hexafluoro-, potassium ; 2-(2-Aminoethoxy)ethanol |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021 or are otherwise exempt, or regulated by other agencies such as FDA or FIFRA

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

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Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

Storage class (LK) : LK 4.1 - Flammable solids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Full text of H- and EUH-statements | |
|------------------------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Muta. 2 | Germ cell mutagenicity, Category 2 |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H412 | Harmful to aquatic life with long lasting effects. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] | | |
|--|------|----------------|
| Acute Tox. 4 (Oral) | H302 | Calculation |
| Skin Corr. 1B | H314 | Cut-off limits |

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| | | |
|---------------|------|-----------------|
| Eye Dam. 1 | H318 | Cut-off limits |
| Resp. Sens. 1 | H334 | Cut-off limits |
| Skin Sens. 1 | H317 | Cut-off limits |
| Muta. 2 | H341 | Cut-off limits |
| STOT SE 3 | H335 | Expert judgment |

Abbreviations and acronyms

| | |
|---------|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| ED | Endocrine disrupting properties |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Median lethal dose |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety and Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STOT | Specific target organ toxicity |
| TRGS | Technical Rules for Hazardous Substances |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

- Data sources : Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
Classification for the USA in accordance with 29 CFR 1910.1200 (2012).
Classification for the EU in accordance with 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.
ECHA (European Chemicals Agency).
- Training advice : Normal use of this product shall imply use in accordance with the instructions for use and corresponding product packaging.
- Other information : Author: PM

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Safety Data Sheet (SDS), EU

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