

acc. to Regulation (EC) No. 1907/2006 (REACH)

Boric acid for molecular biology

Version number: GHS 2.0 Revision: 2025-04-11 Replaces version of: 2021-01-05 (GHS 1)

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

1.1 Product identifier

Identification of the substance Boric acid for molecular biology

CAS number 10043-35-3

Article number 1252

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

Relevant identified usesGeneral use

1.3 Details of the supplier of the safety data sheet

NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany

Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com

e-mail (competent person) info@neofroxx.com (neoFroxx GmbH)

1.4 Emergency telephone number

| Poison centre | | | |
|----------------|--------------------------------------|------------------|-----------|
| Country | Name | Postal code/city | Telephone |
| United Kingdom | National Poisons Information Service | | 111 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and cat- egory | Hazard state- ment |
|---------|-------------------------|----------|--------------------------------|-----------------------|
| 3.1I | acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| 3.7 | reproductive toxicity | 1B | Repr. 1B | H360FD |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling

- Signal word danger

- Pictograms

GHS07, GHS08



- Hazard statements

H332

Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child.

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- Precautionary statements

Obtain special instructions before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protec-

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

The substance has an endocrine disrupting potential.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Name of substance Boric acid for molecular biology

Identifiers

CAS No 10043-35-3 EC No 233-139-2 Index No 005-007-00-2

(GB CLP)

| Specific Conc. Limits | M-Factors | ATE | Exposure route |
|-----------------------|-----------|--|-----------------------|
| - | - | >2.12 ^{mg} / _l /4h | inhalation: dust/mist |

Molecular formula **H3BO3** 61.83 ^g/_{mol} Molar mass

SECTION 4: First aid measures

4.1 **Description of first aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Temperature drop. Agitation. Cramps. Diarrhoea. Nausea. Vomiting. Fatigue. Ataxia (disorders of movement coordination)

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Information on this property is not available.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Appropriate containment techniques

Neutralisation techniques.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.
- Handling of incompatible substances or mixtures
 Do not mix with alkali.
- Keep away from Caustic solutions

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres Removal of dust deposits.
- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | |
|--|---------------|--------|-----------------|--------------|----------------|---------------|-----------------|----------------------|---------------|---------------|
| Coun- try | Name of agent | CAS No | Identi- fier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [mg/m³] | Nota- tion | Source |
| GB | dust | | WEL | | 10 | | | | i | EH40/20 05 |
| GB | dust | | WEL | | 4 | | | | r | EH40/20 05 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fractionr respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-

od (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

min. 0,11 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | solid |
|--|---|
| Colour | white |
| Odour | odourless |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | non-combustible |
| Lower and upper explosion limit | not relevant (solid) |
| Flash point | not applicable |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | $3.8 - 4.8$ (in aqueous solution: $33 ^{9}/_{l}$, $20 ^{\circ}$ C) |
| Kinematic viscosity | not relevant |

Solubility(ies)

| 1 1 1111 | 10.000 |
|------------------|---|
| Water solubility | 49.2 ^g / _l at 20 °C |
| Water Solubility | 13.2 / 4020 € |

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Partition coefficient

| Partition coefficient n-octanol/water (log value) | -1.09 (pH value: 7.5, 22 °C) (ECHA) not relevant (inorganic) |
|---|--|
|---|--|

| Vapour pressure | 0 Pa at 25 °C |
|-----------------|---------------|
|-----------------|---------------|

Density and/or relative density

| Density | 1,489 ^{kg} / _{m³} at 23 °C |
|-------------------------|--|
| Relative vapour density | not relevant (solid) |

| Particle characteristics | no data available |
|--------------------------|-------------------|
|--------------------------|-------------------|

9.2 Other information

| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|--|--|
| Other safety characteristics | there is no additional information |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

Hygroscopic solid.

10.3 Possibility of hazardous reactions

Explosion hazard with:

. Acetic anhydride. Strong reactions possible with:. Strong oxidiser. Bases.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Bases

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Harmful if inhaled.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

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- Acute toxicity estimate (ATE) Inhalation: dust/mist >2.12 mg/1/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May damage the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

| n-octanol/water (log KOW) -1.09 (pH value: 7.5, 22 °C |
|---|
|---|

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

This substance is known as an "endocrine disruptor".

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials. Regeneration of acids.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| 14.1 | UN number or ID number | not subject to transport regulations |
|------|------------------------|--------------------------------------|
| | | |

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Deco-Paint Directive

| VOC content | 0 % |
|-------------|-----|
|-------------|-----|

Industrial Emissions Directive (IED)

| | VOC content | 0 % |
|---|-------------|-----|
| ١ | | |

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Water Framework Directive (WFD)

| List of pollutants (WFD) | | | |
|--|--|----|--|
| Name of substance CAS No Listed in Remarks | | | |
| Boric acid for molecular biology | | a) | |

<u>Legend</u>

a) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

not listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

| Substance of Very High Concern (SVHC) acc. to GB REACH and HSE | | | |
|--|------------|----------------|------------|
| Name of substance CAS No Listed in Remarks | | | |
| Boric acid for molecular biology | 10043-35-3 | Candidate list | Repr. A57c |

<u>Legend</u>

Candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

ist

Repr. A57c Toxic for reproduction (Article 57c)

Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|------------------------|--|----|
| Name of substance Name acc. to inventory CAS No No | | | No |
| Boric acid for molecular biology | toxic for reproduction | | 30 |

National inventories

| Country | Inventory | Status |
|---------|------------|---------------------|
| EU | REACH Reg. | substance is listed |

<u>Legend</u>

REACH Reg. REACH registered substances

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relevant |
|---------|---|--|---------------------|
| 1.1 | Registration number (REACH): 01-2119486683-25-xxxx | | yes |
| 2.1 | | Classification acc. to GHS: change in the listing (table) | yes |
| 2.2 | | - Pictograms: | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relevant |
|---------|---|---|---------------------|
| | | change in the listing (table) | |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.3 | | Endocrine disrupting properties: The substance has an endocrine disrupting potential. | yes |
| 3.1 | REACH Reg. No: 01-2119486683-25-xxxx | | yes |
| 3.1 | | Index No (GB CLP): change in the listing (table) | yes |
| 5.2 | Special hazards arising from the substance or mixture | Special hazards arising from the substance or mixture: Information on this property is not available. | yes |
| 7.1 | - Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. | - Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas. | yes |
| 7.1 | Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. | | yes |
| 7.2 | - Ventilation requirements: Use local and general ventilation. | - Ventilation requirements: Keep any substance that emits harmful vapours or gases in a place that allows these to be per- manently extracted. Use local and general ventil- ation. | yes |
| 9.1 | Lower and upper explosion limit: not determined | Lower and upper explosion limit: not relevant (solid) | yes |
| 9.1 | | Relative vapour density: not relevant (solid) | yes |
| 11.1 | Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swal- lowed or in contact with skin. | Acute toxicity: Harmful if inhaled.GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin. | yes |
| 11.1 | | - Acute toxicity estimate (ATE): change in the listing (table) | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. | yes |
| 12.6 | Endocrine disrupting properties: This substance is known as an "endocrine disrupter". | Endocrine disrupting properties: This substance is known as an "endocrine dis- ruptor". | yes |
| 12.6 | | Endocrine disrupting chemicals (EDC): change in the listing (table) | yes |
| 14.2 | UN proper shipping name: not assigned | UN proper shipping name: not relevant | yes |
| 14.7 | Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information: not assigned | | yes |
| 15.1 | Restrictions according to REACH, Annex XVII | | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relevant |
|---------|---|---|---------------------|
| 15.1 | | Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table) | yes |
| 15.1 | List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list | | yes |
| 15.1 | | Substance of Very High Concern (SVHC): change in the listing (table) | yes |
| 15.1 | | Regulation on persistent organic pollutants (POP): not listed | yes |
| 15.1 | | National regulations (GB) | yes |
| 15.1 | | List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list | yes |
| 15.1 | | Substance of Very High Concern (SVHC) acc. to GB REACH and HSE: change in the listing (table) | yes |
| 15.1 | | Restrictions according to GB REACH, Annex 17 | yes |
| 15.1 | | Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table) | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |
| 16 | Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). | of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport | yes |
| 16 | | List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------|---|
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |

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| Abbr. | Descriptions of used abbreviations |
|----------|---|
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HSE | Health and Safety Executive |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|--------|--|
| H332 | Harmful if inhaled. |
| H360FD | May damage fertility. May damage the unborn child. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

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