

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 27.05.2021 Revision: 27.05.2021 Version number 7.02 (replaces version 7.01)

SECTION 1: Identification of the substance/mixt undertaking	ure and of the company/	
· 1.1 Product identifier		
· Trade name: Boric Acid		
 Article number: 141015 CAS Number: 10043-35-3 EC number: 233-139-2 Index number: 005-007-00-2 Application of the substance / the mixture Chemical analytics Molecular biology Pharmaceutical analysis Biochemistry Laboratory chemicals 		
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com	
 Further information obtainable from: Dept. Compliance 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal buisness hours) 		
SECTION 2: Hazards identification		
 • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Repr. 1B H360FD May damage fertility. May damage the unborn child. 		
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms 		



· Signal word Danger

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Trade name: Boric Acid

H360FD May damage fertility. May damage the unborn child.

- Precautionary statements
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 10043-35-3 Boric Acid
- · Identification number(s)
- EC number: 233-139-2
- · Index number: 005-007-00-2

·SVHC

10043-35-3 Boric Acid

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Involve doctor immediately.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water. Immediately remove any clothing soiled by the product. Seek medical treatment.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: make victim drink water (maximum of 2 drinking glasses) Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** Nausea Cramp
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture Non-combustible.
- 5.3 Advice for firefighters

• Protective equipment: Wear self-contained respiratory protective device.

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Trade name: Boric Acid

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid substance contact. Ensure adequate ventilation
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground was
- \cdot 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- Avoid formation of dust. Dispose contaminated material as waste according to item 13. Clean up affected area.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- Work only in fume cupboard. Open and handle receptacle with care.
- Any unavoidable deposit of dust must be regularly removed.
- Information about fire and explosion protection:
- Keep respiratory protective device available. The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store under lock and key and with access restricted to technical experts or their assistants only. Keep container sealed.

- · Recommended storage temperature: Room Temperature
- · Storage class: 6.1 D
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

· DNELs					
Oral	Acute - systemic effects, general population	0.98 mg/kg			
	Long-term - systemic effects, general population	0.98 mg/kg			
Dermal	Long-term - systemic effects, worker	392 mg/kg			
	Long term - systemic effects, general population	196 mg/kg			
Inhalative	Long-term - systemic effects, worker	8.3 mg/m3			
	Long-term - systemic effects, general population	4.15 mg/m3			
· PNECs	PNECs				
Aquatic co	Aquatic compartment - freshwater 2.02 mg/L				
		(Contd. on page 4)			

Trade name: Boric Acid

		(Contd. of page 3
Sewage treatment plant 10 mg/L Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see item 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Vacuum clean contaminated clothing. Do not blow or brush off contamination. Respiratory protection: Required when dusts are generated. Filter P3 Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. For the permaent contact gloves made of the following materials are suitable:		-
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Trade name: Boric Acid

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Auto-ignition temperature:	Not determined.
Decomposition temperature:	>185 °C
рН	~5 (1%)
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water at 20 °C:	48.8 g/l
Partition coefficient n-octanol/water (log va	lue) -1.09002
Vapour pressure at 25 °C:	<0.000001 hPa
Density and/or relative density	
Density at 20 °C:	1.49 g/cm ³
Relative density	Not determined.
Bulk density:	1,489 kg/m³
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of he	
and environment, and on safety.	
	Droduct doos not present on explosion bezord
Explosive properties:	Product does not present an explosion hazard.
Change in condition	Natanliachta
Evaporation rate	Not applicable.
Information with regard to physical haz	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
Other safety characteristics	
Acid/alkaline reserve	8.94 (20 °C)
ACIU/AINAIIIIE IESEIVE	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: Heating
- 10.3 Possibility of hazardous reactions
- Corrosive action on metals. Reacts with reducing agents.

Reacts with alkaline metals.

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Trade name: Boric Acid

· 10.4 Conditions to avoid

- strong reducing agents
- Hydrogen may form upon contact with metals (danger of explosion!).
- · 10.5 Incompatible materials: strong reducing agents
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
- Components Value Type **Species** Oral LD50 3,765 mg/kg (rat) • Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · After inhalation: No irritant effect. • Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · Reproductive toxicity May damage fertility. May damage the unborn child. • STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met. · Additional toxicological information: · Repeated dose toxicity
- Oral NOAEL 100 mg/kg bw/day (rat)
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:
- Type of test Effective concentration Method Assessment
- EC50/48 h 133 mg/l (daphnia magna) (ECOTOX Database)
- LC50/96 h 50-100 mg/l (Oncorhynchus mykiss) (ECOTOX Database)
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential -1.09 log Pow
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

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Trade name: Boric Acid

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

[.] Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information		
 · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA 	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA · Class	Void	
 14.4 Packing group ADR, IMDG, IATA 	Void	
· 14.5 Environmental hazards:	Not applicable.	
 14.6 Special precautions for user 	Not applicable.	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations:
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
- 10043-35-3 Boric Acid

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Dept. Compliance

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Trade name: Boric Acid

· Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Repr. 1B: Reproductive toxicity Category 1B
- ** Data compared to the previous version altered.

Annex: Exposure scenario

Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures
 Description of the activities / processes covered in the Exposure Scenario
 See section 1 of the annex to the Safety Data Sheet.
 Conditions of use

- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures
- Ensure that suitable extractors are available on processing machines
- · Personal protective measures
- Do not inhale dust / smoke / mist.
- Pregnant women should strictly avoid inhalation or skin contact.
- Measures for consumer protection Ensure adequate labelling.
- · Environmental protection measures
- · Water No special measures required.
- Disposal measures
- Disposal must be made according to official regulations.
- Ensure that waste is collected and contained.
- · Disposal procedures
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Worker (oral) The calculated value is smaller than the DNEL.
- · Worker (dermal) The calculated value is smaller than the DNEL.
- Worker (inhalation) The calculated value is smaller than the DNEL.
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

GR