Safety data sheet according to 1907/2006/EC, Article 31

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Version number 3

Revision: 06.04.2018

	uct identifier	CEDT7A
• Trade na	ume: Boric acid	Electrophoresis
	umber: 15166	Electrophoresis
· CAS Nur		
10043-35		· · · · · · · · · · · · · · · · · · ·
· EC numl		
233-139-		
Index nu	mber:	
005-007-		
-	tion number 01-2119486683-25	C
	vant identified uses of the substance of	r mixture and uses advised against
	er relevant information available.	
· Applicati	ion of the substance / the mixture Lab	oratory chemicals
· 1.3 Detai	ils of the supplier of the safety data sh	eet
	cturer/Supplier:	~?
	Electrophoresis GmbH	
Carl-Ben		
	Heidelberg	\mathbf{O}
	0 6221 13840-0	
	9 6221 13840-10	
	p@serva.de	~O`
	tion department: Product Safety depar	tment Tel.: +49 6221 13840-35
	rgency telephone number:	
	Emergency Information in case of pois	
	oformation Center Mainz - Phone: +49	
(advisory	v service in German or English langua	ge)
SECTIO	DN 2: Hazards identification	
SLUTT		
	sification of the substance or mixture	
· Classific	ation according to Regulation (EC) N	<i>o</i> 1272/2008
	GHS08	
Ronr IR	H360FD May damage fertility May	damage the unborn child
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- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** PBT assessment not available.
- · vPvB: vPvB assessment not available.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- CAS No. Description:
- 10043-35-3 boric acid
- Identification number(s):
- EC number: 233-139-2
- Index number: 005-007-00-2
- · Description:
- Empirical formula: $H_3 B O_3$
- **MW:** 61.8

· SVHC

10043-35-3 boric acid

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

- · After swallowing
- Wash out mouth. Call a doctor immediately.
- Do not induce vomiting!
- 4.2 Most important symptoms and effects, both acute and delayed Nausea

Gastric or intestinal disorders.

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
- CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · 5.2 Special hazards arising from the substance or mixture
- In case of fire formation of toxic pyrolysis products is possible.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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6.3 Methods and material for containment and cleaning up: Pick up mechanically.
Dispose contaminated material as waste according to item 13.
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 Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of dust.
- Information about protection against explosions and fires: The product is not flammable
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Do not store together with oxidizing materials.
- Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Keep receptacle tightly sealed and store in dry conditions.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · 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. Avoid contact with the eyes and skin.
- **Breathing equipment:** Short term filter device: Filter P3.
- Protection of hands:
- Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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(Contd. of page 3) • For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Natural rubber, NR

Nitrile rubber, NBR

• Eye protection: Safety glasses

• **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chem • General Information	ical properties
· Appearance:	
Form:	Crystalline
Colour:	White
· Odour:	Odourless
• <i>pH-value</i> (20 g/l) at 20 •C:	3.8 - 4.8
· Change in condition	
Melting point/freezing point:	176 - 180 °C
Initial boiling point and boiling range:	undetermined
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Product is not flammable.
· Explosive properties:	Product does not present an explosion hazard.
· Vapour pressure at 20 °C:	2.7 hPa
· Density at 20 °C:	1.44 g/cm ³
• Bulk density at 20 •C:	400 - 600 kg/m ³
· Solubility in / Miscibility with	
Water at 20 °C:	50 g/l
· Partition coefficient: n-octanol/water at 25	•C: 0.757 log POW
· 9.2 Other information	There are no more data available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant informations available
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Explosive reaction with acetic anhydride.
- · 10.4 Conditions to avoid high ttemperatures
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Metaboric acid

In case of fire: See Section 5

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

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 Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. 12.5 Results of PBT and vPvB assessment PBT: PBT - assessment not available. vPvB: vPvB - assessment not available. 12.6 Other adverse effects No further relevant information available. SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 	10043-35-3 boric acid Oral [LD50] [2600 mg/kg (rat)] LC5096h 5600 mg/k (Forelle) Primary irritant effect: Stin 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. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation E(C) No 1272/2008 (CLP Regulation) and the inclusion in Annex VI, part 3, Table 3.1 (list of harmonised classification as toxic for reproduction in accordance with Article 57(c of REACH. (ECHA SVHC Support Document - BORIC ACID) Supplementary Information on human health effects concerning Boric acid: SVHC SUPPORT DOCUMEN - BORIC ACID, ANNEX 1 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classifica		as that are relevant for classification.
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Safety data sheet according to 1907/2006/EC, Article 31

Version number 3

Revision: 06.04.2018

Trade name: Boric acid

Printing date 26.04.2018

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information	
14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, IMDG, IATA Class Label	Void -
ADN/R Class:	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

 \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30

· National regulations

· Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning women of child-bearing age must be observed.

- Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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: Product safety department

· Contact: +49 6221 13840-35

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Boric acid

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CLP: Regulation on classification, labelling and packaging of substances and mixtures
ADR: Accord européen sur le transport 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)
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
\cdot * Data compared to the previous version altered.
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