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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 6.00 (replaces version 5.00)

Revision: 27.11.2024

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

· Product identifier

- · Trade name: boric acid
- · Article number: 2012
- CAS Number: 10043-35-3
- EC number:
- 233-139-2
- · Index number:
- 005-007-00-2
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

2 Hazards identification

• 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.

· Label elements

- Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms





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• Signal word Danger • Hazard statements

	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.					
	· Other hazards						
	Results of PBT and vPvB assessment						
	• PBT: Not applicable.						
	· vPvB: Not applicable.						
	· Determination of endocrine-disrupting properties Not applicable.						
_							
	2 Composition (information on ingradiante						
	3 Composition/information on ingredients						
	 Substand 	ces					
	· CAS No. Description						
	CAS: 100	M3-35-3 horic acid					

- CAS: 10043-35-3 boric acid
- · Identification number(s)
- EC number: 233-139-2
- · Index number: 005-007-00-2
- · Specific concentration limits Repr. 1B; H360: C \ge 5.5 % · SVHC
- CAS: 10043-35-3 boric acid

4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

• Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.



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· Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid contact with the substance. Avoid formation of dust.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Take up dry.

Dispose contaminated material as waste according to section 13.

- 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.

7 Handling and storage

· Precautions for safe handling No special precautions are necessary if used correctly.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Store at a dry and well-ventilated place.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: No further information
- · Storage class: TRHS 510: 13 non-combustible solids
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- **Respiratory protection:** Dust protection mask.
- · Hand protection Not required.
- Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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(Contd. of page 3) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Rubber gloves

Natural rubber, NR

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.

· Eye/face protection Not required.

9 Physical and chemical properties

· · ·	
Information on basic physical and chemical pro	perties
General Information	
Physical state	Solid
· Colour:	White
· Odour:	Odourless
· Odour threshold:	Not determined.
 Melting point/freezing point: 	169 °C
• Boiling point or initial boiling point and boiling	
range	300 °C
· Flammability	Product is not flammable.
• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
 Decomposition temperature: 	Not determined.
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
Solubility	
· water at 20 °C:	50 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	0 hPa
Density and/or relative density	
· Density at 20 °C:	1.435 g/cm³
· Relative density	Not determined.
· Bulk density:	500 kg/m³
· Vapour density	Not applicable.
· Particle characteristics	Not determined
• Other information	
· Appearance:	
· Form:	Crystalline powder
Important information on protection of health	
and environment, and on safety.	N <i>i i i i</i>
Ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
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 Change in condition Evaporation rate 	Not applicable.	
	Not applicable.	
 Information with regard to physical hazard classes 		
Explosives	Void	
	Void	
Flammable gases	Void	
	Void	
Aerosols	Void	
	Void	
· Oxidising gases	Void	
	Void	
Gases under pressure	Void	
	Void	
· Flammable liquids	Void	
	Void	
· Flammable solids	Void	
Fidininable Solius	Void	
Oalf manting and atom and mintures		
 Self-reactive substances and mixtures 	Void	
	Void	
· Pyrophoric liquids	Void	
	Void	
Pyrophoric solids	Void	
	Void	
 Self-heating substances and mixtures 	Void	
	Void	
· Substances and mixtures, which emit flamn	nable	
gases in contact with water	Void	
0	Void	
· Oxidising liquids	Void	
······································	Void	
· Oxidising solids	Void	
	Void	
· Organic peroxides	Void	
organic peroxides	Void	
· Corrosive to metals	Void	
Decempitized combacines	Void	
· Desensitised explosives	Void	
	Void	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.



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· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- 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:

Oral LD50 2,660 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

Inhalative LC50 2.03 mg/m3 (rat)

· Primary irritant effect:

· Skin corrosion/irritation

Slightly irritant.

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.
- · 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:

High concentrations can cause tiredness, dizziness or loss of consciousness.

Vapors and liquid can cause eye irritation.

Animal experiments showed evidence for harmful effect on fetus. After absorption of large quantities: agitation, spasms, fatigue, ataxia (impaired locomotor coordination).

· Information on other hazards

· Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

· Toxicity

· Aquatic toxicity: No further relevant information available.

Persistence and degradability

Anorganic product, is not eliminable from water by means of biological cleaning processes.

- Bioaccumulative potential Not likely.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the



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(Contd. of page 6) criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

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

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Waste treatment methods

· Recommendation

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 local regulations.

	14	Trans	port	information
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i + mansport mormation		
· UN number or ID number · ADR, IMDG, IATA	Not subject to transport regulations. not regulated	
 UN proper shipping name ADR, IMDG, IATA Transport hazard class(es) 	not regulated	
· ADR, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group	notrogalatoa	
· ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
• Special precautions for user	Not applicable.	
Maritime transport in bulk according to IMO		
instruments	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture • LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30, 75

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

• Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 13 non-combustible solids

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Trade name: boric acid

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

• Reasons for alterations This version replaces all old versions.

· Version number of previous version: 5.00

 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)

 MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

 LC50: Lethal concentration, 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