

Safety Data sheet

According to Directive 1907/2006

0113 BORIC ACID

Creation Date: 21/03/2017 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0113 Product name: BORIC ACID Use of the substance: Chemical analysis. Chemical production. REACH registration Nr.: 01-2119486683-25-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

60 May impair fertility.

61 May cause harm to the unborn child.

S-phrases

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

53 Avoid exposure - obtain special instructions before use.

Labelling in accordance with directive 1272/2008



H-phrases

360FD May damage fertility. May damage the unborn child.

P-phrases

202 Do not handle until all safety precautions have been read and understood.

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : DANGER

TOXIC

R-phrases:

May impair fertility.

May cause harm to the unborn child.

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 10043-35-3

Molecular Weight: 61,83

Chemical formula: H_3BO_3

EC-No.: 233-139-2

R-phrases 60; 61

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Dry place.

Storage temperature: without limits

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: White

Odour: Odourless

pH value: 3,8-4,8 (33 g/l H₂O)

Melting point: 185°C

Vapour pressure: 2,7 hPa

Solubility: 50 g/l (water)

log P(ow): 0,757

10. Stability and reactivity

Substances to be avoided:

Anhydrides.

Hazardous decomposition products:

Boron oxides

Further information:

To avoid heating.

11. Toxicological information

Acute toxicity:

LD50 (dermal, rat): > 2000 mg/kg. LD50 (oral, rat): 2660 mg/kg.

After eye contact:

Slight irritation
Redness
Pain

After skin contact:

Slight irritation symptoms
May be absorbed
Redness

After inhalation:

Coughing

After long contact:

Agitation
Spasms
Ataxia
Tiredness
Drop in body temperature

After swallowing:

Diarrhoea
Vomiting
Nausea

Further toxicological information:

The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: *Gambusia affinis*: LC50: 5600 mg/l/96h.
Daphnia: *Daphnia magna*: EC50: 658-875 mg/l/48h.
Algae: *Desmodesmus subspicatus*: IC10: 24 mg/l/96h.
Bacteria: *Pseudomonas putida*: EC10: 1580 mg/l/30min.
Log P(ow): 0,757
Bioaccumulation: No bioaccumulation is to be expected (log Pow < 1)

Other harmful effects:

Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

Sea transport IMDG

Air transport ICAO-IATA-DGR

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

60 May impair fertility.

61 May cause harm to the unborn child.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.