

**SECTION1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product code : ACIDO BORICO REACH N. 01-2119486683-25

Trades code : 100120

Chemical Name: Boric acid CAS: 10043-35-3 - EC No: 233-139-2 - Index No: 005-007-00-2 - REACH: 01-2119486683-25

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

Photographic Process

Sectors of use:

Professional use[SU22]

Product category:

Photochemicals

Process categories:

Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact)[PROC5]

Uses advised against

Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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**1.4. Emergency telephone number**

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**SECTION2. Hazards identification****2.1. Classification of the substance or mixture**

CAS 10043-35-3 CEE 005-007-00-2 EINECS 233-139-2 REACH 01-2119486683-25

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS08

Hazard Class and Category Code(s):

Repr. 1B

Hazard statement Code(s):

H360FD - May damage fertility. May damage the unborn child.

Warning: This product may damage fertility and may damage the unborn child.

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS08 - Danger

Hazard statement Code(s):

H360FD - May damage fertility. May damage the unborn child.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:



**Prevention**

P201 - Obtain special instructions before use.

P280 - Wear protective gloves protective clothing eye protection face protection.

**Response**

P308+P313 - IF exposed or concerned: Get medical advice/attention.

**Disposal**

P501 - Dispose of contents and container in accordance with the laws in force

**Contains:**

Boric acid

**2.3. Other hazards****It Contains :**

Boric acid - SVHC

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with Dlgs. April 9, 2008 # 81. Workers exposed to this chemical agent should not be subjected to health surveillance if the results of the risk assessment show that, in relation to the type and quantity of hazardous chemical agent and that agent exposure frequency and mode, you just a "moderate risk" for the health and safety of workers and that the measures laid down in the decree are sufficient to reduce the risk.

RESTRICTED TO PROFESSIONAL USERS

**SECTION3. Composition/information on ingredients****3.1 Substances**

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Boric acid - SVHC	100%	Repr. 1B, H360FD	005-007-00-2	10043-35-3	233-139-2	01-2119486 683-25

**3.2 Mixtures**

Irrilevant

**SECTION4. First aid measures****4.1. Description of first aid measures****Inhalation:**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

**Direct contact with skin (of the pure product):**

Wash thoroughly with soap and running water.

**Direct contact with eyes (of the pure product):**

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

**Ingestion:**

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

IF exposed or concerned: Get medical advice/attention.

**SECTION5. Firefighting measures**

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**5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

**5.2. Special hazards arising from the substance or mixture**

No data available.

**5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

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**SECTION6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

**6.2. Environmental precautions**

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

**6.3. Methods and material for containment and cleaning up**

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

**6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

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**SECTION7. Handling and storage****7.1. Precautions for safe handling**

Wear protective gloves protective clothing eye protection face protection.

At work do not eat or drink.

See also paragraph 8 below.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and `direct exposure of sunlight.

**7.3. Specific end use(s)**

Professional use:

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Photographic and cinematographic treatment

**SECTION8. Exposure controls/personal protection****8.1. Control parameters**

No data available.

**8.2. Exposure controls**

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

**SECTION9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	Powder	
Odour	Not determined	
Odour threshold	undefined	
pH	5.00 ± 0.10 a 20 °C	
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Not determined	
Flash point	non flammable	ASTM D92
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1.52 REL Note: 1.5172 g/cm3 temp. 14 °C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	

Physical and chemical properties	Value	Determination method
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

No data available.

**SECTION 10. Stability and reactivity****10.1. Reactivity**

Related to contained substances:

Boric acid:

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

Related to contained substances:

Boric acid:

Exposure to humidity.

**10.5. Incompatible materials**

It can generate flammable gases in contact with dithiocarbamates, mercaptans and other organic sulfides, primary metals, strong reducing agents.

It can generate toxic gases to contact with inorganic fluoride, halogenated organic substances, sulfide, nitrides, nitrile, organophosphate, strong oxidants agents.

It can ignite in contact with dithiocarbamate, elementary metals, nitrides.

**10.6. Hazardous decomposition products**

No data available

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE oral = ∞

ATE dermal = ∞

ATE inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: based on available data, the classification criteria are not met.

(g) reproductive toxicity: Warning: This product may damage fertility and may damage the unborn child.

Boric acid: Alleged toxic for human reproduction

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not

met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

ACIDO BORICO:

LD50 (rat) Oral (mg/kg body weight) = 2660

Related to contained substances:

Boric acid:

Hazardous to health effects:

For eye contact: irritation.

Ingestion: may cause nausea, vomiting, intestinal disorders.

For absorption in large quantity: anxiety, ataxia (coordination disorders in the motor system), fatigue, cramps, change in body temperature.

Do not ascertain other hazardous characteristics. Keep the usual precautions when handling chemicals.

Can reduce fertility.

Can harm to the unborn child.

Toxic to reproduction category 2

LD50 (rat) Oral (mg/kg body weight) = 2660

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

Related to contained substances:

Boric acid:

EC test 50 (mg/l):

Fish (*Gambusia affinis*) = 5600 mg/l/96 h; 1800 mg/l/12:00 am; Classification: highly toxic

Plants (B) = 1 mg/l; Classification: highly toxic

Use according to good working practices, avoiding release of the product in the environment.

Use according to good working practices to avoid pollution into the environment.

### **12.2. Persistence and degradability**

No data available

### **12.3. Bioaccumulative potential**

No data available

### **12.4. Mobility in soil**

No data available

### **12.5. Results of PBT and vPvB assessment**

No PBT/vPvB ingredient is present

### **12.6. Other adverse effects**

No data available

## **SECTION 13. Disposal considerations**

### **13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## **SECTION 14. Transport information**

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In conformity to Regulation (EU) 2015/830

**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

**14.2. UN proper shipping name**

None

**14.3. Transport hazard class(es)**

None

**14.4. Packing group**

None

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

No data available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

It is not intended to carry bulk

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional); D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter). REGULATION (EU) No 1357/2014 - waste:

HP10 - Toxic for reproduction

**15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety

**SECTION 16. Other information****16.1. Other information**

Points modified compared to previous release: 2.3. Other hazards, 10.4. Conditions to avoid, 12.5. Results of PBT and vPvB assessment

Description of the hazard statements exposed to point 3

H360FD = May damage fertility. May damage the unborn child.

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

Regolamento 529/2012 and subsequent updates

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In conformity to Regulation (EU) 2015/830

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This data sheet cancels and replaces any previous edition.

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