

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

Product code : BORACE REACH N. 01-2119490790-32

Trades code : 100160

Chemical Name: Sodium tetraborate decahydrate CAS: 1330-43-4 - EC No: 215-540-4 - Index No: 005-011-00-4 - REACH: 01-2119490790-32

**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 1330-43-4 CEE 005-011-00-4 EINECS 215-540-4 REACH 01-2119490790-32

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.

P202 - Do not handle until all safety precautions have been read and understood.

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

**Response**

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

**Storage**

P405 - Store locked up.

**Disposal**

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

**Contains:**

Sodium tetraborate decahydrate

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

Sodium tetraborate decahydrate - 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.

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**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
Sodium tetraborate decahydrate - SVHC	100%	Repr. 1B, H360FD	005-011-00-4	1330-43-4	215-540-4	01-2119490 790-32

**3.2 Mixtures**

Irrelevant

**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****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

**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

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

Use extreme caution when handling or opening the container

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

Wear protective gloves protective clothing eye protection face protection.

At work do not eat or drink.

See also paragraph 8 below.

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## 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:  
Photographic and cinematographic treatment

# SECTION8. Exposure controls/personal protection

## 8.1. Control parameters

Related to contained substances:  
Sodium tetraborate decahydrate:  
Contains no substances with occupational exposure limit value.

## 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:

Related to contained substances:

Sodium tetraborate decahydrate:

Prevent further leakage or spillage if this can be done without danger. Do not let product enter drains.

# 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	9.20 ± 0.05 a 20 °c	
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Not determined	
Flash point	non flammable	
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Not determined	

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In conformity to Regulation (EU) 2015/830

Physical and chemical properties	Value	Determination method
Vapour density	Not determined	
Relative density	1.73 gr/cm3	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
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:

Sodium tetraborate decahydrate:

Stable under normal conditions

**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:

Sodium tetraborate decahydrate:

No data available

**10.5. Incompatible materials**

Strong oxidizing agents, strong reducing agents Agents

**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.  
(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.

Related to contained substances:

Sodium tetraborate decahydrate:

Exposure: the substance can be absorbed into the body by inhalation of its aerosol, by ingestion and through the damaged skin.

INHALATION RISK: evaporation at 20 C is negligible; a harmful concentration of particles in the air can be reached quickly when dispersed, especially if powdered.

Effects of short-term EXPOSURE: the substance is irritating to eyes, skin and respiratory tract. The substance can determine effects on the central nervous system, kidneys and gastrointestinal tract by ingestion of high doses or through the damaged skin.

EFFECTS of repeated exposure: repeated or prolonged or long term contact with the skin may cause dermatitis. The substance can have effect on the respiratory tract.

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

BORACE:

C(E)L50 (mg/l) = 178

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 adverse effects

## **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**

### **14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by

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In conformity to Regulation (EU) 2015/830

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

**SECTION15. 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

**SECTION16. Other information****16.1. Other information**

Points modified compared to previous release: 2.2. Label elements, 2.3. Other hazards, 7.1. Precautions for safe handling, 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

This data sheet cancels and replaces any previous edition.