

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

1.1. Product identifier - Product name: BUFFER PH 10.0 @ 25°C - Product code: A3140

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

Use of substance / mixture: PC21: Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company name: EDT DirectiON The Old Silo Store, St. Radigund's Abbey Farm, Dover, CT15 7DL UK

Tel: +44(0)1304 829960

Email: Info@edt.co.uk

1.4. Emergency telephone number - Emergency tel: +44(0)1304 829960

Section 2: Hazards identification

2.1. Classification of the substance or mixture - Classification under CHIP: This product has no classification under CHIP. - **Classification under CLP:** This product has no classification under CLP.

2.2. Label elements - Label elements: This product has no label elements.

2.3. Other hazards - PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures - Hazardous ingredients:

BORIC ACID [1] BORIC ACID, CRUDE NATURAL, CONTAINING NOT MORE THAN 85% OF H3BO3 CALCD. BY DRY WEIGHT [2]

EINECS	CAS	CHIP Classification	CLP Classification	Percent
233-139-2, 234-343-4	10043-35-3, 11113 -50	T: R60; T: R61	Repr. 1B: H360FD	<1%

Contains: Boric acid Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media - Suitable extinguishing media for the surrounding fire should be used. Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: The product itself does not burn. Thermal decomposition can lead to release of irritating gases and vapors. Nature of decomposition products not known.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leakside up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: PPE To be worn. See section 8. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work day.

Respiratory protection: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection: Protective gloves. Glove material: Nitrile. Layer thickness:0.15mm. Breakthrough time:>480min. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure eye bath is to hand.

Skin protection: Wear appropriate clothing to prevent any possibility of skin contact.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Odourless

Solubility in water: Soluble

pH: 10.0 @25°C

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Potassium. Acid anhydrides. Products that are incompatible with water.

10.6. Hazardous decomposition products

Haz. decomp. products: Does not decompose when used for intended uses.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL-pure Boric Acid	RAT	LD50	2600	mg/kg

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Section 12: Ecological information**12.1. Toxicity****Ecotoxicity values:**

Species	Test	Value	Units
Daphnia magna(pure Boric Acid)	21d LC50	53.2	mg/l
Daphnia magna(pure Boric Acid)	48H EC50	133	mg/l

12.2. Persistence and degradability**Persistence and degradability:** No data available.**12.3. Bioaccumulative potential****Bioaccumulative potential:** No data available.**12.4. Mobility in soil****Mobility:** No data available.**12.5. Results of PBT and vPvB assessment****PBT identification:** This product is not identified as a PBT/vPvB substance.**12.6. Other adverse effects****Other adverse effects:** No data available.**Section 13: Disposal considerations****13.1. Waste treatment methods****Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**Section 14: Transport information****Transport class:** This product does not require a classification for transport.**Section 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Specific regulations:** Boric Acid Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH), Toxic for reproduction (article 57 c) ED/30/2010.**15.2. Chemical Safety Assessment****Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.**Section 16: Other information**This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. Section 3 was updated. Section 8 was updated. Phrases used in s.2 and s.3: **H360FD:** May damage fertility. May damage the unborn child. **R60:** May impair fertility. **R61:** May cause harm to the unborn child.**Legend to abbreviations:**

DNEL = derived no effect level	oc = open cup	IVN = intravenous
LD50 = median lethal dose	MUS = mouse	SCU = subcutaneous
LC50 = median lethal concentration	GPG = guinea pig	SKN = skin
EC50 = median effective concentration	RBT = rabbit	DRM = dermal
IC50 = median inhibitory concentration	HAM = hamster	OCC = ocular/corneal
dw = dry weight	HMN = human	OPT = optical
bw = body weight	MAM = mammal	INH = inhalation
cc = closed cup	PGN = pigeon	PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.