

**SAFETY DATA SHEET**  
**According to Regulation (EC) No. 1907/2006**

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Trade name:	<b>BUFFER TABLETS</b>				
Product code:	01PT68X**; 01PT72X**	Date of compilation:	9 March 2017	Version:	2

<b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>	
1.1.	Product identifier
	Trade name: BUFFER TABLETS
	Chemical name: -
	Catalogue number: 01PT68X**; 01PT72X**
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Uses: For preparing phosphate buffer, pH value 6.8 or 7.2
	Uses advised against: Only the identified uses are advised.
	Reason why uses advised against: The product is intended for use only as an in vitro diagnostic medical device and there is no reason to use it for other purposes.
1.3.	Details of the supplier of the safety data sheet
	Supplier: Histo-Line Laboratories S.r.l
	Address: Via G. Di Vittorio, 30 - 20090 Pantigliate (MI) Italy
	Telephone number: +39 0255230061
	Telefax: +39 0255213764
	e-mail of competent person: <a href="mailto:specialist@histoline.com">specialist@histoline.com</a>
	National contact: Fabrizio Illuminati
1.4.	Emergency telephone numbers
	National Protection and Rescue Directorate: 112
	Medical information: +385 1 2348 342
	Other information: -

<b>SECTION 2. Hazards identification</b>	
2.1.	Classification of the substance or mixture
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)
	Hazard class and category code: Hazard statements*:
	Not identified as hazardous substance. Not identified as hazardous substance.
2.1.2.	Additional information
	-
* For full text of Hazard- and EU Hazard-statements: see SECTION 16	
2.2.	Label elements
	Product identification: BUFFER TABLETS
	Identification number: -
	Authorisation number: -
	Hazard pictograms: -
	Signal word: -
	Hazard statement: -
	Precautionary statements: -

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Supplemental hazard information (EU):	-
2.3. Other hazards	-

<b>SECTION 3. Composition/information on ingredients</b>				
CAS/EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
Contains no hazardous substances	Contains no hazardous substances	Contains no hazardous substances	Contains no hazardous substances	Contains no hazardous substances
Mix of anorganic compounds				

<b>SECTION 4. First aid measures</b>	
4.1.	Description of first aid measures
	General notes: -
	Following inhalation: If breathing difficulties occur, take the afflicted person out for fresh air.
	Following skin contact: Remove all contaminated clothing and footwear. Wash the contaminated area thoroughly with water.
	Following eye contact: Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion: Provide the afflicted person with no more than 2 glasses of water. It is permitted to induce vomiting. If the afflicted person feels unwell, immediately seek medical attention.
	Self-protection of the first aider: Treat symptomatically.
4.2.	Most important symptoms and effects, both acute and delayed
	Following inhalation: High levels of concentration may cause respiratory system irritation.
	Following skin contact: Allergic persons may display irritation.
	Following eye contact: May cause eye irritation.
	Following ingestion: It is not considered hazardous, systemic reactions are not probable. May cause gastrointestinal irritation accompanied by stomach pain (higher concentrations).
4.3.	Indication of any immediate medical attention and special treatment needed
	No information available

<b>SECTION 5. Firefighting measures</b>
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5.1.	<b>Extinguishing media</b>	
	Suitable extinguishing media:	The product is nonflammable. Choose the medium compatible with materials in the immediate surrounding.
	Unsuitable extinguishing media:	No information available
5.2.	<b>Special hazards arising from the substance or mixture</b>	
	Hazardous byproducts of fire:	No information available
5.3.	<b>Advice for firefighters</b>	
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.	
5.4.	<b>Additional information</b>	
	Do not contaminate the environment with extinguishing media.	

<b>SECTION 6. Accidental release measures</b>		
6.1.	<b>Personal precautions, protective equipment and emergency procedures</b>	
6.1.1.	<b>For non-emergency personnel</b>	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Avoid eye contact. Do not swallow.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	<b>For emergency responders:</b>	
	Wear protective equipment (see Section 8).	
6.2.	<b>Environmental precautions:</b>	
	Do not dispose of in sewage, drainage system and waterways. In case of emergency contact National Protection and Rescue Directorate (NPRD) on 112.	
6.3.	<b>Methods and materials for containment and cleaning up</b>	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	It may be collected in a jar using paper towels or other absorbing material. Avoid forming dust.
6.3.3.	Other information:	-
6.4.	<b>Reference to other sections</b>	
	Personal protection, Section 8.2.2. See Section 13, Disposable considerations	

<b>SECTION 7. Handling and storage</b>		
7.1.	<b>Precautions for safe handling</b>	
7.1.1.	<b>Protective measures</b>	
	Measures to prevent fire:	The product is nonflammable.
	Measures to prevent aerosol and dust generation:	No information available

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	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.
	Other measures:	-
7.1.2.	Advice on general occupational hygiene:	
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Keep the containers tightly closed and in upright position.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals.
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

**SECTION 8. Exposure controls/personal protection**

8.1.	Control parameters			
		Occupational exposure limit values/short term values		Biological limit values
		ppm	mg/m <sup>3</sup>	
Contains no hazardous substances	-	-	-	-
Substance: -				
EC No:	-	CAS No:	-	
<b>DNEL</b>				
<b>Industrial</b>				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
By swallowing	-	-	-	-
By inhalation	-	-	-	-
By skin contact	-	-	-	-

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Critical physical parameters: solubility, flammability, corrosivity:	-
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<b>Consumer</b>				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
By swallowing	-	-	-	-
By inhalation	-	-	-	-
By skin contact	-	-	-	-

<b>PNEC</b>	
Environmental protection target	<b>PNEC</b>
Fresh water	No information available
Freshwater sediments	No information available
Marine water	No information available
Marine sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available
Air	No information available

<b>8.2.</b>	<b>Exposure controls</b>	
<b>8.2.1.</b>	<b>Appropriate engineering controls</b>	
	Substance/mixture related measures to prevent exposure during identified uses:	Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:	No information available
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:	No information available
<b>8.2.2.</b>	<b>Personal protection equipment:</b>	
<b>8.2.2.1.</b>	Eye and face protection:	Safety glasses that stick to face.
<b>8.2.2.2.</b>	<b>Skin protection</b>	
	Hand protection:	Protective gloves made of nitrile rubber, material thickness: 0.11 mm.
	Other skin protection:	Use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot.
<b>8.2.2.3.</b>	Respiratory protection:	Not necessary. Necessary in case of dust formation. Use an appropriate firm particle of inert matter filter P1, white in color.

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8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

**SECTION 9. Physical and chemical properties**

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	Solid	No information available
	Colour:	White	No information available
	Odour:	No odour	No information available
	Odour threshold;	No information available	No information available
	pH:	6.8 - 7.2	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Soluble (20 °C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2.	Other information		
	-		

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<b>SECTION 10.: Stability and reactivity</b>		
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3.	Possibility of hazardous reactions:	No information available
10.4.	Conditions to avoid:	No information available
10.5.	Incompatible materials:	No information available
10.6.	Hazardous decomposition products:	In case of fire: see Section 5.

<b>SECTION 11. Toxicological information</b>					
11.1. Information on toxicological effects					
Acute toxicity:					
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral:	No information available	No information available	No information available	No information available	No information available
Dermal:	No information available	No information available	No information available	No information available	No information available
Inhalation:	No information available	No information available	No information available	No information available	No information available
Specific target organ toxicity - single exposure (STOT-SE):					
	Specific effects	Target organ		Note	
Oral:	No information available	No information available	-		
Dermal:	No information available	No information available	-		
Inhalation:	No information available	No information available	-		
Aspiration hazard: No information available					
Irritation and corrosion					
	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation	-	-	-	-	No information available
Serious eye damage/irritation	-	-	-	-	No information available

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	<b>Sensitization</b>
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Skin sensitization:	No information available
Respiratory sensitization:	No information available

	<b>Symptoms related to the physical, chemical and toxicological characteristics</b>
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Oral exposure:	It is not considered hazardous, systemic reactions are not probable. May cause gastrointestinal irritation accompanied by stomach pain (higher concentrations).
Dermal exposure:	Allergic persons may display irritation.
Inhalation exposure:	High levels of concentration may cause respiratory system irritation.
Eye exposure:	May cause eye irritation.

	<b>Repeated dose toxicity (subacute, subchronic, chronic)</b>
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	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-



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Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-
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Specific target organ toxicity - repeated exposure (STOT-RE):						
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	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

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CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)						
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Carcinogenicity:	No information available		
Mutagenicity <i>in-vitro</i> :	No information available		
Genotoxicity:	No information available		
Mutagenicity <i>in-vivo</i> :	No information available		
Germ cell mutagenicity :	No information available		
Reproductive toxicity:	No information available		

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Summary of evaluation of the CMR properties; :	No information available		
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11.2.	Practical experiences:					
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Classification observations:	No information available		
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Other observations:	No information available		
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11.3.	General notes:					
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<b>SECTION 12. Ecological information</b>						
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12.1.	Toxicity					
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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note

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Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crabs	EC <sub>50</sub>	24 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms:	-	-	-	-	-	-

**12.2. Persistence and degradability**

**Abiotic degradation**

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

**Biodegradation**

% Degradation	Time (days)	Method	Evaluation	Note
No information available	No information available	No information available	No information available	-

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<b>12.3. Bioaccumulative potential</b>						
Octanol-water partition coefficient (log Kow)						
Value	Concentration	pH	°C	Method	Evaluation	Note
No information available	No information available	-	-	No information available	No information available	-
Bioconcentration Factor (BCF)						
Value	Species	Method		Evaluation	Note	
No information available	No information available	No information available		No information available	-	
Chronic ecotoxicity						
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea (Daphnia)	EC <sub>50</sub>	No information available	No information available	No information available	No information available	-
<b>12.4. Mobility in soil</b>						
Known or predicted distribution in environmental compartments:						
No information available						
Surface tension:						
Value	°C	Concentration		Method	Note	
No information available	No information available	No information available		No information available	-	
Adsorption / desorption						

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Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No information available	No information available	No information available	No information available	-
Water-Air	No information available	No information available	No information available	No information available	-
Soil-Air	No information available	No information available	No information available	No information available	-

<b>12.5.</b>	<b>Results of PBT and vPvB assessment</b>
	No information available

<b>12.6.</b>	<b>Other adverse effects</b>
	No information available

<b>SECTION 13. Disposal considerations</b>	
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<b>13.1.</b>	<b>Waste treatment methods</b>
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<b>13.1.1.</b>	<b>Product/Packaging disposal:</b>
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.

<b>13.1.2.</b>	<b>Waste codes/waste designations according to Low:</b>
	No information available

<b>13.1.3.</b>	<b>Waste treatment – relevant information:</b>
	No information available

<b>13.1.4.</b>	<b>Sewage disposal – relevant information:</b>
	Waste must not be disposed of into the sewage system.

<b>13.1.5.</b>	<b>Other disposal recommendations:</b>
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.

<b>13.1.6.</b>	<b>Relevant Community provisions:</b>
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<b>SECTION 14. Transport information</b>	
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Transporting/shipment by road (ADR)	
UN number:	No information available
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)	
UN number:	No information available
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland waterways (ADN)	
UN number:	No information available
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IMDG)	
UN number:	No information available
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number:	No information available
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-

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Further information:	Not a hazardous substance, not subject to transport regulations.
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<b>SECTION 15. Regulatory information</b>	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU regulations
	Authorisation and/or restrictions on use
	Authorisations: -
	Restrictions: -
	Other EU regulations: <p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;                      The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);                      EC Regulation No. 2037/2000 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances;                      EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals;                      EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants;                      Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</p>
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
	National legislation: <p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act</p>
15.2.	Chemical safety assessment
	None

<b>SECTION 16. Other information</b>														
16.1.	Indication of changes: -													
16.2.	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Abbreviations and acronyms:</td> <td style="width: 10%; text-align: center;">and</td> <td style="width: 60%;"> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">PBT</td> <td>Stable, bioaccumulative and toxic</td> </tr> <tr> <td>vPvB</td> <td>Strongly stable and strongly bioaccumulative</td> </tr> <tr> <td>LD<sub>50</sub></td> <td>Lethal dose, 50%</td> </tr> <tr> <td>LC<sub>50</sub></td> <td>Lethal concentration, 50%</td> </tr> <tr> <td>STOT-SE</td> <td>Specific target organ toxicity - single exposure</td> </tr> </table> </td> </tr> </table>	Abbreviations and acronyms:	and	<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">PBT</td> <td>Stable, bioaccumulative and toxic</td> </tr> <tr> <td>vPvB</td> <td>Strongly stable and strongly bioaccumulative</td> </tr> <tr> <td>LD<sub>50</sub></td> <td>Lethal dose, 50%</td> </tr> <tr> <td>LC<sub>50</sub></td> <td>Lethal concentration, 50%</td> </tr> <tr> <td>STOT-SE</td> <td>Specific target organ toxicity - single exposure</td> </tr> </table>	PBT	Stable, bioaccumulative and toxic	vPvB	Strongly stable and strongly bioaccumulative	LD <sub>50</sub>	Lethal dose, 50%	LC <sub>50</sub>	Lethal concentration, 50%	STOT-SE	Specific target organ toxicity - single exposure
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**SAFETY DATA SHEET**  
**According to Regulation (EC) No. 1907/2006**

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Trade name:	<b>BUFFER TABLETS</b>		
Product code:	01PT68X**; 01PT72X**	Date of compilation:	9 March 2017
		Version:	2

16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
	Classification	Classification procedure
	-	-
16.5.	Relevant H statements (number and full text)	
	H: -	-
16.6.	Training advice:	-
16.7.	Further information:	<p>** "X" in the product code marks different volumes (different packagings of the product)</p> <p>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</p>

<b>ANNEX: Exposure scenario resulting to Chemical safety assessment</b>
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