


Prepared in accordance with 1907/2006/EC, Article 31

**SECTION 1 - IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

<b>1.1 Product identifier</b>	HM1 Buffer Sachets
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	SU3 Industrial uses
<b>1.3 Details of the supplier of the safety data sheet</b>	Trace2o Ltd, Technology Centre, Wagtech Court, Station Road, Thatcham, Berkshire. RG19 4HZ. Tel: +44 (1635) 866772. Fax: +44 (1635) 873509. Email: technical@trace2o.com
<b>1.4 Emergency telephone number</b>	Contact Trace2o UK at +44 (1635) 866772 between 0830 and 1700 UK time Mon-Fri. Information provided by Trace2o is for guidance on the nature of hazards only and does not constitute medical advice.

**SECTION 2 - HAZARDS IDENTIFICATION**

<b>2.1 Classification of the substance or mixture</b>	
<b>Classification according to Regulation (EC) No 1272/2008</b>	 GHS07 H303; H316; H320; H333
<b>2.2 Label elements</b>	The product is classified and labelled according to the CLP regulation.
<b>2.3 Other hazards</b>	N/A

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

<b>3.2 Mixtures (Dangerous components)</b>				
Substance	Amount (% w/w)	CAS No.	EC No.	Hazard statements
Citric acid	25-30	77-92-9	201-069-1	H315, H318, H335

**SECTION 4 - FIRST AID MEASURES**

<b>4.1 Description of first aid measures</b>	
<b>General information</b>	In case of concerning symptoms, consult a physician. Show this data sheet.
<b>Skin contact</b>	Wash skin with soap and water, and rinse thoroughly. Seek medical advice if symptoms persist.
<b>Eye contact</b>	Flush eyes with copious amounts of water for at least fifteen minutes. Seek medical advice if symptoms persist.
<b>Inhalation</b>	Remove person to fresh air. Seek medical advice if symptoms persist.
<b>Ingestion</b>	Rinse out mouth with water. Drink 1-2 glasses of water. Seek medical advice if symptoms persist.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	After swallowing of large amounts; coughing, pain, mucous membrane irritation, sickness, vomiting
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	None available.

## SECTION 5 - FIRE FIGHTING MEASURES

<b>5.1 Extinguishing media</b>	Product is non-flammable. Use suitable extinguishing media for the surrounding fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	Formation of toxic gases is possible during heating or in case of fire: sodium oxide, carbon monoxide and carbon dioxide
<b>5.3 Advice for firefighters</b>	Wear self-contained breathing apparatus. Wear full protective suit. Ambient fire may liberate hazardous vapours.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear personal protective equipment whilst handling product. Keep unprotected people away. Ensure that appropriate risk assessment is carried out before use.
<b>6.2 Environmental precautions</b>	Dispose of product and waste packaging in accordance with local regulations.
<b>6.3 Methods and material for containment and cleaning up</b>	Ventilate hazard area. Wear appropriate personal protective equipment. Collect mechanically. Dispose of contaminated material as waste according to section 13.
<b>6.4 Reference to other sections</b>	See section 8 of SDS for detailed information on personal protective equipment.

## SECTION 7 - HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Thorough dedusting.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in a cool location. Protect from heat and direct sunlight. Store under dry conditions. Protect from humidity and keep away from water. This product is hygroscopic. Protect from the effects of light.
<b>7.3 Specific end use(s)</b>	No data available.

## SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	N/A		
<b>8.2 Exposure controls</b>			
<b>Engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands after use.		
<b>Personal protective equipment</b>			
<b>Eye/face protection</b>	Safety glasses against the effect of dust.	<b>Skin protection</b>	Handle with gloves. Use proper glove removal technique.
<b>Respiratory protection</b>	Where appropriate in case of dust evacuation.	<b>Thermal protection</b>	None required

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>			
<b>Appearance, odour, and odour threshold (if relevant):</b>	Powder, white, odourless	<b>pH:</b>	4.5 (19g/l @ 20°C)
<b>Melting/freezing point (°C):</b>	No data available	<b>Initial boiling point &amp; range (°C):</b>	No data available
<b>Flash point (°C):</b>	N/A	<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available	<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available	<b>Vapour density:</b>	No data available
<b>Relative density:</b>	1.578 g/cm <sup>3</sup>	<b>Solubility(ies):</b>	Soluble.
<b>Partition coefficient: n-octanol/water;</b>	No data available	<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available	<b>Viscosity:</b>	No data available

<b>Explosive properties:</b>	Not explosive.	<b>Oxidising properties:</b>	No data available
<b>9.2 Other Information</b>	No data available		

**SECTION 10 - STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	As below.
<b>10.2 Chemical stability</b>	To avoid thermal decomposition do not overheat.
<b>10.3 Possibility of hazardous reactions</b>	No data available.
<b>10.4 Conditions to avoid</b>	No data available
<b>10.5 Incompatible materials</b>	No data available.
<b>10.6 Hazardous decomposition products</b>	Sodium oxide, carbon monoxide and carbon dioxide

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>			
<b>Inhalation</b>	May irritate respiratory system.	<b>Ingestion</b>	May be harmful if swallowed.
<b>Eye contact</b>	Irritant effect.	<b>Skin contact</b>	No irritant effect.
<b>Carcinogenicity/ mutagenicity</b>	No data available	<b>Sensitisation</b>	No sensitising effect known.
<b>Chronic effects</b>	No data available	<b>Other</b>	No data available

**SECTION 12 - ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	No data available	<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies	<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPbB assessment</b>	No data available	<b>12.6 Other adverse effects</b>	No data available.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	Offer to licensed disposal company for disposal in accordance with local regulations.
<b>Packagings</b>	Dispose of as unused product.

**SECTION 14 - TRANSPORT INFORMATION**

<b>14.1 UN number</b>	Not hazardous for transport according to applicable regulations	<b>14.2 UN proper shipping name</b>	N/A
<b>14.3 Transport hazard class(es)</b>	N/A	<b>14.4 Packing group</b>	N/A
<b>14.5 Environmental hazards</b>	N/A	<b>14.6 Special precautions for user</b>	N/A
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	N/A	<b>Additional information</b>	N/A

## SECTION 15 - REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Employment restrictions concerning young persons must be observed.
<b>15.2 Chemical safety assessment</b>	No data available

## SECTION 16 - OTHER INFORMATION

<b>Hazard Statement Index</b>	H303 = May be harmful if swallowed H316 = Causes mild skin irritation	H320 = Causes eye irritation H333 = May be harmful if inhaled
<b>Precautionary Statement Index</b>	P233 = Keep container tightly closed P261 = Avoid breathing mist/spray P270 = Do not eat, drink or smoke when using this product P281 = Use personal protective equipment as required P302+352 = IF ON SKIN: Wash with soap and water P305+351+338 = IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing	P234 = Keep only in original container P262 = Do not get in eyes, on skin, or on clothing P273 = Avoid release to the environment P301+330+331 = IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P304+340 = IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P308+313= IF exposed or concerned: Get medical advice/attention
<b>Restrictions</b>		
<b>Revision Date</b>	27-08-18	
<b>Disclaimer</b>	To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.	