


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

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

1.1 Product identifier	HM3 Buffer Sachets
1.2 Relevant identified uses of the substance or mixture and uses advised against	SU3 Industrial uses
1.3 Details of the supplier of the safety data sheet	Trace2o Ltd, Technology Centre, Wagtech Court, Station Road, Thatcham, Berkshire. RG19 4HZ. Tel: +44 (1635) 866772. Fax: +44 (1635) 873509. Email: technical@trace2o.com
1.4 Emergency telephone number	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

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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures (Dangerous components)				
Substance	Amount (% w/w)	CAS No.	EC No.	Hazard statements
Citric acid	35-40	77-92-9	201-069-1	H315, H318, H335

SECTION 4 - FIRST AID MEASURES

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

SECTION 5 - FIRE FIGHTING MEASURES

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

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling	Thorough dedusting.
7.2 Conditions for safe storage, including any incompatibilities	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.
7.3 Specific end use(s)	No data available.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties			
Appearance, odour, and odour threshold (if relevant):	Powder, white, odourless	pH:	2 (19g/l @ 20°C)
Melting/freezing point (°C):	No data available	Initial boiling point & range (°C):	No data available
Flash point (°C):	N/A	Evaporation rate:	No data available
Flammability (solid, gas):	No data available	Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available	Vapour density:	No data available
Relative density:	1.578 g/cm ³	Solubility(ies):	Soluble.
Partition coefficient: n-octanol/water;	No data available	Auto-ignition temperature:	No data available
Decomposition temperature:	No data available	Viscosity:	No data available

Explosive properties:	Not explosive.	Oxidising properties:	No data available
9.2 Other Information	No data available		

SECTION 10 - STABILITY AND REACTIVITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

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

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

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

SECTION 16 - OTHER INFORMATION

Hazard Statement Index	H303 = May be harmful if swallowed H316 = Causes mild skin irritation	H320 = Causes eye irritation H333 = May be harmful if inhaled
Precautionary Statement Index	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
Restrictions		
Revision Date	27-08-18	
Disclaimer	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.	