


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>	ZN750 HM5 Buffer 15mL
<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, The 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; H315; H319; H333
<b>2.2 Label elements</b>	The mixture 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.	Symbol letter(s) and Risk phrases
Citric acid	<20	77-92-9	201-069-1	H319

**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 IMMEDIATELY.
<b>Inhalation</b>	Remove person to fresh air. If required, provide artificial respiration. Keep person warm. Seek medical advice if symptoms persist.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting. SEEK MEDICAL ADVICE IMMEDIATELY.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
<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>	No data available.
<b>5.3 Advice for firefighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.

**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>	Isolate and ventilate hazard area. Wear appropriate personal protective equipment. Spills should be taken up with a suitable absorbent and placed in approved containers. Flush area with copious amounts of water. Collect waste water for approved disposal.
<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>	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Do not use unless adequately trained in safe handling.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in original container, in a cool, dry, dark place. Keep lid tightly closed. Containers with seal broken should be resealed or stored upright to prevent leakage.
<b>7.3 Specific end use(s)</b>	No data available.

**SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION**

<b>8.1 Control parameters</b>			
<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 with side shield	<b>Skin protection</b>	Handle with gloves. Use proper glove removal technique.
<b>Respiratory protection</b>	None required provided use is as directed	<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>	Colourless liquid	<b>pH:</b>	No data available
<b>Melting/freezing point (°C):</b>	≈ 0°C	<b>Initial boiling point &amp; range (°C):</b>	≈ 100°C
<b>Flash point (°C):</b>	No data available	<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>	No data available	<b>Solubility(ies):</b>	No data available
<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>	No data available	<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>	No data available
<b>10.2 Chemical stability</b>	Stable if stored and used as directed.
<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>	Bases, oxidising agents.
<b>10.6 Hazardous decomposition products</b>	No data available

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>			
<b>Inhalation</b>	Irritating to respiratory system.	<b>Ingestion</b>	Harmful if swallowed.
<b>Eye contact</b>	Risk of serious damage.	<b>Skin contact</b>	Irritating to skin.
<b>Carcinogenicity/ mutagenicity</b>	No data available	<b>Sensitisation</b>	No data available
<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>	No data available	<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>	May be harmful to aquatic life.

**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>	No data available
<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 H315 = Causes skin irritation	H319 = Causes serious 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>	26-07-18	
<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.	