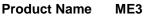
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1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name Synonym (s)	ME3	
Product Use/s	MARKING SOLUTION	
Company Identification	Universal Marking Systems Ltd Unit 4, Dukes Mill Station Approach Medstead, GU34 5EN	Telephone 01420 565 800
Emergency Telephone	01420 565 800	
e-mail address	info@ums.co.uk	

2. HAZARDS IDENTIFICATION

Classification of mixture (Regulation (EC) No. 1272/2008 (CLP))

Not classified

Label elements

Hazard pictogram(s)	None	
Signal word	None	
Hazard statements		None
Precautionary statemen	ts	None
Further information		None
Other hazards		This product is low hazard but may cause slight irritation of the skin and eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS-No	EINECS/ELINCS	Classification (Reg. EC 1272/2008)	Conc. %
Citric acid	77-92-9	201-069-1	Eye Irrit. 2; H319	< 4

Further Information: Other components are either low hazard or are below the concentration limit for classification.

4. FIRST AID MEASURES

Inhalation	If inhaled, provide fresh air, warmth and rest.
Skin contact	Wash areas of skin affected with soap and plenty of water.
Eye contact	In case of contact with eyes, rinse immediately with plenty of water until irritation subsides.

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4. FIRST AID MEASURES

 Ingestion
 Allow the patient to vomit on his own accord. DO NOT induce vomiting. Give copious water to drink.

 Further information

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT IS NON-COMBUSTIBLE
Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
Extinguishing media not to be used	-
Special exposure hazards	Decomposition products released in a fire should be considered toxic if inhaled.
Protective equipment	Fire fighters should wear protective equipment appropriate for surrounding fire.
Further information	-

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	LARGE LEAKS & SPILLAGES: Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust, into tightly closable containers. Label container and dispose of as prescribed.MINOR LEAKS & SPILLAGES: Wearing protective gloves, mop up spillage with a cloth. Rinse out cloth afterwards. Wash contaminated area with water.
Environmental considerations	Do not allow large volumes to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
Further information	Wash decontaminated area well with plenty of water.

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice. Wear appropriate protective clothing as specified in section 8.	
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry when not in use.	
Further information	No special precautions are required.	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values	No Workplace Exposure Limits (WEL) assigned.		
	LTEL (8 hour TWA):	- ppm	- mg/m ³
	STEL (15min)	- ppm	mg/m ³
Engineering controls	Ensure adequate ventilation of v	working area.	

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection	Observe normal standards for handling chemicals. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below).
Eye protection	Safety glasses.
Skin protection	Lightweight chemical resistant gloves.
Respiratory protection	Not required.
Other personal protection	None required for normal use. Protective overalls if dealing with large leaks or spillages.
Environmental exposure controls	No significant issues.
Further Information	Personal protective equipment should be selected as appropriate for the identified hazard(s). It should be regularly inspected for soundness against leaks, bad fitting and possible chemical penetration. Recommended safe use periods should never be exceeded.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Liquid supplied in 1 litre and 125 ml plastic bottles.	
Colour	Not available.	
Odour	Not available.	
Molecular weight	Not applicable	
Molecular formula	Not applicable	
рН	Approx. 2.2.	
Boiling pt / range	100°C approx.	
Melting pt / range	Not available	
General Flammability	Non-combustible	
Flash point	Non-combustible	
Auto-ignition temperature	Non-combustible	
Decomposition temperature	Not available	
Relative Density	Approx. 1	
Explosive properties	Not explosive	
Oxidising properties	Not oxidising	
Vapour pressure	Not available	
Vapour Density	Not available	
Relative Evaporation Rate (n-Butyl Acetate = 1)	Not available	
Viscosity	Not available	

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Water solubilityMisciblePartition coefficient (log P
or log K n-octanol / water)Not availableAdditional information-

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	None.
Incompatible Materials	None known.
Hazardous decomposition products	May generate toxic fumes if involved in a fire.
Further information	-

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	3000 mg/kg	data for Citric acid RTECS GE7350000
Acute irritation/corrosivity	Skin (rabbit): 500 mg/24H - Eye (rabbit): 0.75 mg/24H -		data for Citric acid data for Citric acid
Sensitisation	-		
Repeated dose toxicity	-		
CMR effects	-		
Further information	No significant toxicological	data as this is a low l	hazard product.

12. ECOLOGICAL INFORMATION

Ecotoxicity	LC ₅₀ fish EC ₅₀ Daphnia magna	440 – 760 mg/l/96H ca. 120 mg/l/72H	data for Citric acid data for Citric acid
Mobility	Miscible with water.		
Persistence and degradability	No data available.		
Bioaccumulative potential	No data available.		
Results of PBT assessment	No data available.		
Other adverse effects	This product is low hazard	and unlikely to cause environ	nmental damage.



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13. DISPOSAL CONSIDERATIONS Advice on disposal In accordance with national (i.e. Hazardous Waste Regulations in the UK) and local authority regulations, e.g. incineration. Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

Further information In the UK, this product and its containers can be disposed of as normal industrial waste.

14. TRANSPORT INFORMATION

United Nations number	The product is not classified for transport
Proper shipping name	-
Class	-
Subsidiary risk/s	-
Packing group	-
Marine pollutant	-
Emergency action code	-
Hazard Identification Number	-
Further information	-

15. REGULATORY INFORMATION

Classification & labelling in accordance with EC Regulation No. 1272/2008

16. OTHER INFORMATION

Key H statements in Section 3	H319	Causes serious eye irritation.
Sources of data	RTECS; sup	opliers' safety data sheets; ECHA Classification & Labelling Inventory.
Date of Revision	11/08/2015	
Reason for revision	Amended in	formation and advice to improve relevance for end users.
Sections revised	4, 5, 6, 7, 8,	9, 16

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

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