

SDS Reference UN4344
Version No. 5
Revision Date 10/12/2015
Origination Date 15/11/2004

Safety Data Sheet

REVISION



Product Name ME 2

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name ME 2
Synonym (s) -
Product Use/s MARKING
Company Identification Universal Marking Systems Ltd
Unit 4, Dukess Mill
Station Approach Telephone 01420 565 800
Medstead, GU34 5EN
Emergency Telephone 01420 565 800
e-mail address info@ums.co.uk

2. HAZARDS IDENTIFICATION

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

Eye Irritant 2; H319

Label elements

Hazard pictogram(s)



Signal word WARNING

Hazard statements H319: Causes serious eye irritation.

Precautionary statements P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.

Further information Contains Citric acid.

Other hazards None.

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	5 - 10

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 Clean areas of skin affected with soap and plenty of water.

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4. FIRST AID MEASURES

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Allow the patient to vomit on his own accord. DO NOT induce vomiting. Give copious water to drink and if necessary seek medical advice.

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 hazardous waste.
MINOR LEAKS & SPILLAGES: Wear protective gloves and mop up with a cloth. Wash contaminated area with plenty of 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. Avoid contact with eyes. Wear suitable 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 -

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values Workplace Exposure Limits (WEL) – none assigned.

LTEL (8 hour TWA): - ppm - mg/m³

STEL (15min) - ppm - mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation of working area.
Personal protection	Observe normal standards for handling chemicals. Avoid eye contact. Wash thoroughly after handling (shower if necessary). Store working clothes separately. Wear personal protective equipment appropriate to the task (see below).
Eye protection	Safety spectacles for normal use. Goggles or full-face visor for dealing with large leaks or spillages.
Skin protection	Lightweight chemical resistant gloves.
Respiratory protection	None required.
Other personal protection	None required.
Environmental exposure controls	Data not supplied.
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.
Colour	Not available.
Odour	Not available.
Molecular weight	Not applicable.
Molecular formula	Not applicable.
pH	Approx. 2.8.
Boiling pt / range	100°C approx.
Melting pt / range	Not available.
General Flammability	NON-COMBUSTIBLE.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Relative Density	Approx. 1.
Explosive properties	Not explosive.
Oxidising properties	Not available.
Vapour pressure	Not available.
Vapour Density	Not available.

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9. PHYSICAL & CHEMICAL PROPERTIES

Relative Evaporation Rate (n-Butyl Acetate = 1) Not available.
Viscosity Not available.
Water solubility Miscible.
Partition coefficient (log P or log K n-octanol / water) Not available.
Additional information -

10. STABILITY & REACTIVITY

Stability Stable under normal conditions.
Conditions to avoid None known.
Incompatible materials Not available.
Hazardous decomposition products May generate toxic fumes if involved in a fire.
Further information -

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ rat (oral) 3000 mg/kg data for Citric acid RTECS GE7350000
Acute irritation/corrosivity Skin (rabbit): 500 mg/24H - MILD data for Citric acid RTECS GE7350000
Eye (rabbit): 0.75 mg/24H - SEVERE data for Citric acid RTECS GE7350000
Sensitisation No data available.
Repeated dose toxicity No data available.
CMR effects No data available.
Further information -

12. ECOLOGICAL INFORMATION

Ecotoxicity LC₅₀ fish 440 - 760 mg/l/96H data for Citric acid
EC₅₀ daphnia magna ca. 120 mg/l/72H data for Citric acid
Mobility No data available.
Persistence and degradability No data available.
Bioaccumulative potential No data available.
Results of PBT assessment No data available.
Other adverse effects This product is unlikely to cause environmental 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 must be disposed of as Hazardous 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 to H statements in Section 3 H319 Causes serious eye irritation.

Sources of data RTECS; suppliers' safety data sheet; ECHA Classification & Labelling Inventory.

Date of Revision 10/12/2015

Reason for revision Amended to comply with EC Regulation No. 1272/2008 and improve relevance for end users.

Sections revised All sections.

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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