Revision Date 21/12/2015 Origination Date 21/01/2005

## Safety Data Sheet REVISION



Product Name ME 4

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name ME 4
Synonym (s) -

Product Use/s MARKING

Company Identification Universal Marking Systems Ltd

**Unit 4, Dukes Mill** 

Station Approach Telephone 01420 565 800

Medstead, GU34 5EN

Emergency Telephone 01420 565 800

e-mail address <u>info@ums.co.uk</u>

## 2. HAZARDS IDENTIFICATION

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

Eve 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

 Ammonium nitrate
 6484-52-2
 229-347-8
 Ox. Sol. 3; H272
 20 - 25

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

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### 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.

**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 PRODUCT IS NON-COMBUSTIBLE BUT MAY INTENSIFY A FIRE IF INVOLVED.

**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, into tightly closable containers. DO NOT use organic absorbent material.

Label container and dispose of as hazardous waste.

MINOR LEAKS & SPILLAGES: Wear protective gloves and absorb spillage into a damp cloth. Ensure cloth is fully rinsed out afterwards. 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 Avoid contact with organic or combustible materials. CAUTION: This includes wood, paper and

rags. If these become contaminated and are allowed to dry out, they may spontaneously catch fire.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

LTEL (8 hour TWA): - ppm - mg/m<sup>3</sup>

STEL (15min) - ppm -  $mg/m^3$ 

**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 for normal use.

PVC gloves for dealing with large leaks or spillages.

**Respiratory protection** None required.

Other personal protection None required for normal use.

Protective overalls if dealing with large leaks or spillages.

**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.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

**Physical form** Liquid.

Colour Not available. Odour Not available.

Molecular weight Not applicable. Molecular formula Not applicable.

Approx. 2.5

Boiling pt / range Not available. Not available Melting pt / range

**General Flammability** Non-combustible. Flash point Non-combustible.

Non-combustible.. **Auto-ignition temperature** 

**Decomposition** temperature

Not available

**Relative Density** Not available. Not explosive. **Explosive properties Oxidising properties** Not available Vapour pressure Not available Not available Vapour Density

**Relative Evaporation Rate** 

(n-Butyl Acetate = 1) Viscosity

Not available

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 Combustible materials, alkalis and organic substances. Avoid contact with wood, paper and rags.

Incompatible materials Strong reducing agents and alkalis.

Hazardous decomposition

products

May generate toxic oxides of nitrogen if involved in a fire.

**Further information** 

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### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** LD<sub>50</sub> rat (oral) 3000 mg/kg data for Citric acid RTECS GE7350000

> LD<sub>50</sub> rat (oral) data for Ammonium nitrate RTECS BR9050000 2217 mg/kg

Acute irritation/corrosivity data for Citric acid RTECS GE7350000 Skin (rabbit): 500 mg/24H - MILD

> 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

EC<sub>50</sub> daphnia magna ca. 120 mg/l/72H data for Citric acid

LC50 fish 5657 mg/l/96H data for Ammonium nitrate

Miscible with water.. **Mobility** 

Persistence and

No data available. degradability

Bioaccumulative potential No data available.

**Results of PBT** assessment

No data available.

Other adverse effects This product is unlikely to cause environmental damage.

## 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.

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## 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** H272 May intensify fire; oxidizer. **Section 3** H319 Causes serious eye irritation.

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

**Date of Revision** 21/12/2015

**Reason for revision** Full revision to comply with EC Regulation No. 1272/2008.

**Sections revised** 1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 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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