

SDS Reference UN4475  
Version No. 6  
Revision Date 13/08/2015  
Origination Date 18/07/2006

# Safety Data Sheet

## REVISION



Product Name ME8

### 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** ME8  
**Product Use/s** ELECTROCHEMICAL MARKING SOLUTION  
**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** [info@ums.co.uk](mailto:info@ums.co.uk)

### 2. HAZARDS IDENTIFICATION

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

Acute Tox. 4; H302

#### Label elements

Hazard pictogram(s)



Signal word WARNING

**Hazard statements** H302: Harmful if swallowed.  
**Precautionary statements** P264: Wash hands and exposed skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330: Rinse mouth.  
P501: Dispose of contents/container to hazardous waste.  
**Further information** Contains Sodium nitrite  
**Other hazards** None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS-No	EINECS/ELINCS	Classification (Reg. EC 1272/2008)	Conc. %
Sodium nitrite	7632-00-0	231-555-9	Ox.Sol. 3: H272 Acute Tox.3: H301 Aquatic Acute 1: H400	< 3

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

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### 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, provide fresh air, warmth and rest.
<b>Skin contact</b>	Clean areas of skin affected with soap and plenty of water.
<b>Eye contact</b>	In case of contact with eyes, rinse immediately with plenty of water until irritation subsides.
<b>Ingestion</b>	Rinse mouth. Allow the patient to vomit on his own accord. DO NOT induce vomiting. Give copious water to drink and if necessary seek medical advice.
<b>Further information</b>	-

### 5. FIRE FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

<b>Methods for cleaning up</b>	<b>LARGE LEAKS &amp; SPILLAGES:</b> 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. <b>MINOR LEAKS &amp; SPILLAGES:</b> Wear protective gloves and absorb spillage into a damp cloth. Ensure cloth is fully rinsed out afterwards. Wash contaminated area with plenty of water.
<b>Environmental considerations</b>	Do not allow large volumes to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>Further information</b>	Wash decontaminated area well with plenty of water.

### 7. HANDLING & STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good hygiene and safety practice. Wear suitable protective clothing as specified in section 8.
<b>Storage conditions</b>	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry when not in use.
<b>Further information</b>	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

<b>Exposure limit values</b>	No Workplace Exposure Limits (WEL) assigned. LTEL (8 hour TWA): - ppm - mg/m <sup>3</sup> STEL (15min) - ppm - mg/m <sup>3</sup>
<b>Engineering controls</b>	Ensure adequate ventilation of working area.
<b>Personal protection</b>	Observe normal standards for handling chemicals. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below).
<b>Eye protection</b>	Safety glasses.
<b>Skin protection</b>	Lightweight chemical resistant gloves for normal use. PVC gloves for dealing with large leaks or spillages.
<b>Respiratory protection</b>	Not required.
<b>Other personal protection</b>	None required for normal use. Protective overalls if dealing with large leaks or spillages.
<b>Environmental exposure controls</b>	Data not supplied.
<b>Further Information</b>	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

<b>Physical form</b>	Liquid supplied in 1 litre and 125 ml plastic bottles.
<b>Colour</b>	Pale yellow
<b>Odour</b>	Mild
<b>Molecular weight</b>	Not applicable
<b>Molecular formula</b>	Not applicable
<b>pH</b>	6 - 8
<b>Boiling pt / range</b>	100°C approx.
<b>Melting pt / range</b>	Not available
<b>General Flammability</b>	NON-COMBUSTIBLE
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Relative Density</b>	Approx. 1
<b>Explosive properties</b>	Not available
<b>Oxidising properties</b>	Not available

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### 9. PHYSICAL & CHEMICAL PROPERTIES

Vapour pressure	Not available
Vapour Density	Not available
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	The product may oxidise slowly in air.
Conditions to avoid	Elevated temperatures.
Incompatible Materials	Acids, strong reducing agents, combustible materials e.g. wood, paper, rags.
Hazardous decomposition products	May generate toxic oxides of nitrogen if involved in a fire.
Further information	-

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD <sub>50</sub> rat (oral)	180 mg/kg	data for sodium nitrite RTECS RA1225000
	LC <sub>50</sub> rat (inhalation)	5.5 mg/m <sup>3</sup> /4H	data for sodium nitrite RTECS RA1225000
Acute irritation/corrosivity	Eye (rabbit): 500 mg/24h – MILD		data for sodium nitrite.
Sensitisation	No data available.		
Repeated dose toxicity	No data available.		
CMR effects	No data available.		
Further information	-		

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### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	EC <sub>50</sub> daphnia magna	66 mg/l/48H	data for sodium nitrite.
<b>Mobility</b>	No data available.		
<b>Persistence and degradability</b>	No data available.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Results of PBT assessment</b>	No data available.		
<b>Other adverse effects</b>	This product is unlikely to be dangerous for the environment.		

### 13. DISPOSAL CONSIDERATIONS

<b>Advice on disposal</b>	In accordance with national (i.e. Hazardous Waste Regulations in the UK) and local authority regulations, e.g. incineration.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.
<b>Further information</b>	In the UK, this product and its contaminated containers must be disposed of as Hazardous Waste.

### 14. TRANSPORT INFORMATION

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

### 15. REGULATORY INFORMATION

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

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### 16. OTHER INFORMATION

**Key to H statements in Section 3**

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.

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

**Date of Revision** 13/08/2015

**Reason for revision** Amended information and advice to improve relevance to end users.

**Sections revised** 4, 5, 6, 7, 8, 10, 13, 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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