

Safety Data Sheet

According to Regulation (EU) 2015/830



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product Name	ME6
1.2	Relevant identified uses of the substance	Marking solution
1.3	Details of the supplier	Universal Marking Systems Ltd. Dukes Mill Station Approach Medstead Alton Hampshire GU34 5EN England
	Telephone	+44 (0) 1420 565800
	Email	Info@ums.co.uk
	Web	www.ums.co.uk
1.4	Emergency Telephone Number	+44(0) 1420 565800

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	
	Classification of mixture	EC 1272/2008 (CLP) Not classified
	Physical hazards	None
	Health hazards	None
	Environmental Hazards	None
2.2	Label Elements	
	Hazard pictograms	None
	Signal Word	None
	Hazard statement	None
	Precautionary statements	None
	Contains	-
2.3	Other Hazards	This product is low hazard but may cause slight skin and eye irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	-
3.2	Mixtures	
	Name of Ingredient	Sodium nitrate
	CAS No	7631-99-4
	Approx. content	< 5%
	M-Factor	-
	Classification	Ox. Sol. 3; H272 Eye Irrit. 2; H319
	Name of ingredient	Citric acid

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	CAS No	77-92-9
	Approx. content	< 3%
	M-Factor	-
	Classification	Eye Irrit. 2; H319
3.3	Further Information	Other components are either low hazard or are below the concentration limit for classification.

SECTION 4: FIRST AID MEASURES

4.1	Description of First Aid Measures	
	General information	-
	Inhalation	If inhaled, provide fresh air, warmth and rest.
	Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Allow patient to vomit on his own accord.
	Eye contact	Rinse immediately with plenty of water until irritation subsides.
	Skin contact	Clean areas of skin affected with soap and plenty of water.
4.2	Most important symptoms & side effects	
	General information	-
	Inhalation	No specific symptoms.
	Ingestion	No specific symptoms.
	Skin contact	May cause slight irritation.
	Eye contact	May cause slight irritation.
4.3	Indication of any immediate medical attention and special treatment needed	
	Notes for the doctor	No specific recommendations. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1	Suitable extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
5.2	Special hazards arising from the mixture	
	Specific hazards	Decomposition products released in a fire, (e.g. oxides of nitrogen and carbon), should be considered toxic if inhaled.
	Hazardous combustion products	This product is non-combustible.
5.3	Advice for firefighters	
	Protective actions during firefighting	As appropriate for surrounding fire.
	Special protective equipment for firefighters	Fire fighters should wear protective equipment appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with skin & eyes. Wear protective equipment as detailed in section 8.
6.2	Environmental precautions	Do not allow large volumes to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

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6.3	Methods and material for containment and cleaning up	<p>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 prescribed.</p> <p>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.</p>
6.4	Reference to other sections	See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Usage precautions	Handle in accordance with good hygiene and safety practice. Wear suitable protective clothing as specified in section 8. 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.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage precautions	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry when not in use.
	Storage Class	12
7.3	Specific end use(s)	
	Usage description	Marking solution.





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS

8.1	Control Parameters	
	Occupational exposure limits	<p>No Workplace Exposure Limits (WEL) assigned.</p> <p>LTEL (8 hour TWA): - ppm - mg/m³</p> <p>STEL (15 min): - ppm - mg/m³</p>
8.2	Exposure controls	
	Appropriate engineering controls	Ensure adequate ventilation of working area. Provide local exhaust ventilation if necessary.
	Individual protection measures	<p>Observe normal standards for handling chemicals.</p> <p>Wash thoroughly after handling (shower if necessary). Store work clothes separately.</p> <p>Do not eat, drink or smoke in the working area.</p> <p>Wear personal protective equipment appropriate to the task (see below).</p> <p>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.</p> <p>Recommended safe use periods should never be exceeded.</p>
		Not required

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	Lightweight chemical resistant gloves for normal use. PVC gloves for dealing with large leaks or spillages.
	None required for normal use. Protective overalls for dealing with large leaks or spillages.
	Not required.
	Safety glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties (typical data)	
	Appearance	Liquid supplied in 1 litre and 125 ml plastic bottles.
	Colour	Not available
	Odour	Not available
	Odour threshold	Not available
	pH	Approx. 3.4
	Melting point	Not available
	Initial boiling point and range	100°C approx.
	Flash point	Non combustible
	Evaporation rate	Not available
	Evaporation factor	Not available
	Upper/lower flammability or explosive limits	Not explosive
	Vapour pressure	Not available
	Vapour density	Not available
	Relative density	Approx. 1
	Bulk density	Not applicable
	Solubility(ies)	Miscible with water
	Partition coefficient	Not available
	Auto-ignition temperature	Non combustible
	Decomposition temperature	Not available
	Viscosity	Not available
	Oxidising properties	Not oxidising

SECTION 10: STABILITY AND REACTIVITY

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10.1	Reactivity	Stable under normal use and storage conditions.
10.2	Chemical stability	May react with reducing agents.
10.3	Possibility of hazardous reactions	May react with organic or combustible materials.
10.4	Conditions to avoid	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.
10.5	Incompatible materials	Combustible materials & reducing agents.
10.6	Hazardous decomposition product(s)	May generate toxic oxides of carbon and nitrogen if involved in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Toxicological effects	This product is low hazard.
	Acute toxicity	LD ₅₀ rat (oral): 3000 mg/kg - data for Citric acid RTECS GE7350000
	Skin corrosion/irritation	Skin (rabbit): 500 mg/24h – MILD – data for Citric acid
	Serious eye damage/irritation	Eye (rabbit) 0.75 mg/24h – SEVERE – data for Citric acid
	Respiratory sensitisation	Not sensitising.
	Inhalation	Low hazard.
	Ingestion	Low hazard.
	Skin contact	May cause slight irritation.
	Eye contact	May cause slight irritation.
11.2	Further Information	No significant toxicological data as this is a low hazard product.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Ecotoxicity	LC ₅₀ fish: 440-760 mg/1/96h - data for Citric acid EC ₅₀ Daphnia magna: ca. 120 mg/1/72h - data for Citric acid
12.2	Toxicity	Low toxicity.
12.3	Persistence and degradability	No data available.
12.4	Mobility in soil	Product is miscible with water.
12.5	Results of PBT and vPvB assessment	No data available.
12.6	Other adverse effects	This product is low hazard and unlikely to cause environmental damage.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	
	General information	In accordance with national (i.e. Hazardous Waste Regulations in the UK) and local authority regulations, e.g. incineration. Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.
	Disposal methods	In the UK, this product and its contaminated packaging can be disposed of as normal industrial waste.

SECTION 14: TRANSPORT INFORMATION

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14.1	UN Number	The product is not hazardous for transport.
14.2	UN proper shipping name	-
14.3	Transport hazard classes	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special Precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not intended to be transported in bulk.

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	National regulations	Ensure compliance with all relevant national regulations.
	EU legislation	In accordance with EC Regulation No. 1272/2008
	Guidance	Ensure compliance with all relevant guidance.
	German Water Hazard Class (WGK)	1
15.2	Chemical safety assessment	Not applicable.

SECTION 16: OTHER INFORMATION

16.1	General Information	RTECS; Suppliers' safety data sheets; ECHA Classification & Labelling Inventory
16.2	Hazard statements in full	H272: May intensify fire; oxidiser. H319: Causes serious eye irritation.

Disclaimers

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