



# SAFETY DATA SHEET

## OXALIC ACID

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

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**PRODUCT NAME:** OXALIC ACID  
**CHEMICAL NAME 2:** DICARBOXYLIC ACID  
**PART No.:** RM179  
**SUPPLIER:** J M Loveridge plc  
Southbrook Road, Southampton  
Hampshire  
SO15 1BH  
Tel: 023 8022 2008  
Fax: 023 8022 2117

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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**EU INDEX No.:** 607-006-00-8  
**EEC (EINECS) No.** 205-634-3  
**CAS No.:** 144-62-7

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### 3. HAZARDS IDENTIFICATION:

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Harmful in contact with skin and if swallowed.

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### 4. FIRST AID MEASURES:

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**GENERAL:** IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

**INHALATION:** Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.

**INGESTION:** DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

**SKIN:** Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothing before re-use.

**EYES:** Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

**5. FIRE FIGHTING MEASURES:**

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<b>EXTINGUISHING MEDIA:</b>	Water spray, foam or dry chemical.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Burning will produce oxides of carbon.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Fire fighters should wear self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES:**

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<b>PERSONAL PRECAUTION IN SPILL:</b>	Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing. Avoid breathing dust.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Cover spillage with damp inert material, take-up or collect and place into a suitable closable labelled container for disposal. Wash the area clean with water and detergent, observing environmental requirements.

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**7. HANDLING AND STORAGE:**

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<b>USAGE PRECAUTIONS:</b>	<b>HANDLING</b> - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid breathing dust. Ensure good ventilation and local exhaust extraction in work place.
<b>STORAGE PRECAUTIONS:</b>	Store in a cool, dry, well ventilated place, in securely closed original container.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

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<b>INGREDIENT NAME:</b>	<b>CAS No.:</b>	<b>STD</b>	<b>LT EXP 8 Hrs</b>	<b>ST EXP 15 Min</b>
OXALIC ACID	144-62-7	OES	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

<b>INGREDIENT COMMENTS:</b>	Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits;
<b>VENTILATION:</b>	If unable to control dust emissions below recommended limits, an approved respiratory protection must be used at all times at least to (EN 149) FFP 2S level of protection.
<b>PROTECTIVE GLOVES:</b>	Use impervious gloves.
<b>EYE PROTECTION:</b>	Wear approved safety goggles.
<b>OTHER PROTECTION:</b>	Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	<b>SKIN PROTECTION</b> - apply barrier cream to hands and exposed skin. Regularly vacuum dust to minimise the potential of air-borne exposure.

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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

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<b>APPEARANCE:</b>	White crystalline powder.		
<b>PHYSICAL DATA COMMENTS:</b>	Combustible substance. Fine dust may create explosive mixture with air.		
<b>MELT/FREEZ. POINT (°C, interval):</b>	~ 101°C (decomposes)		
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	~ 1.653	<b>Temperature (°C):</b>	
<b>pH-VALUE, DILUTED SOLUTION:</b>	0.5	<b>Concentration % M:</b>	(saturated solution)
<b>SOLUBILITY DESCRIPTION:</b>	Soluble in water.		
<b>SOLUBILITY VALUE (g/100g H<sub>2</sub>O 20°C):</b>	12.8		
<b>DECOMPOSITION TEMP. (°C):</b>	97		

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**10. STABILITY AND REACTIVITY:**

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<b>STABILITY:</b>	Stable under normal conditions of use.
<b>CONDITIONS TO AVOID:</b>	Avoid excessive dust build up in air. Avoid sources of ignition.
<b>HAZARDOUS DECOMP. PRODUCTS:</b>	Thermal decomposition or burning may release oxides of carbon and formic acid.

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**11. TOXICOLOGICAL INFORMATION:**

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	Acute toxicity. LD50. Oral. Rat. 350 mg/kg
	Acute toxicity. LD50. Skin. Rabbit. 2000 mg/kg
<b>HEALTH HAZARDS, GENERAL:</b>	Dust will severely irritate membranes of nose, throat, lungs and eyes. Harmful in contact with skin and if swallowed.
<b>INHALATION:</b>	Extremely irritating to mucous membranes and respiratory system.
<b>SKIN:</b>	Aqueous solutions are acidic and have corrosive effect on skin contact.
<b>OTHER HEALTH EFFECTS:</b>	Evidence of reproductive effects.

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**12. ECOLOGICAL INFORMATION:**

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<b>Ecotoxicological data</b>	EC50 24 hours Daphnia magna 61 mg/l
<b>LC 50, 96 HRS, FISH mg/l:</b>	160
<b>ECOLOGICAL INFORMATION:</b>	Harmful effect due to pH shift.
<b>MOBILITY:</b>	Soluble in water. Predicted to have high mobility in soil.
<b>BIO ACCUMULATION:</b>	Not expected to bio-accumulate.
<b>DEGRADABILITY:</b>	Readily biodegradable. Biochemical Oxygen Demand (BOD) BOD5 = 48 - 89%

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### 13. DISPOSAL CONSIDERATIONS:

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**DISPOSAL METHODS:** This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.

**WASTE CLASS:** WASTE CODE: 0705\*\* HAZARDOUS PROPERTY: H5

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### 14. TRANSPORT INFORMATION:

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**GENERAL:** Not classified as hazardous for transport.

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### 15. REGULATORY INFORMATION:

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**LABEL FOR SUPPLY:**



**RISK PHRASES:** R-21/22 Harmful in contact with skin and if swallowed.

**SAFETY PHRASES:** S-24/25 Avoid contact with skin and eyes.

**UK REGULATORY REFERENCES:** Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

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### 16. OTHER INFORMATION:

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**INFORMATION SOURCES:** This product has been classified in accordance with CHIP3 regulations.

**REVISION COMMENTS:** Edition 01; Revised item(s):

**ISSUED BY:** MK

**SDS No.:** 329

**DATE:** 12/07/02

**DISCLAIMER:** The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.

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