



# SAFETY DATA SHEET

## DITHRANOL

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

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**PRODUCT NAME:** DITHRANOL  
**CHEMICAL NAME 2:** 1,8-dihydroxy-9-anthrone  
**PART No.:** RM093  
**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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**CAS No.:** 1143-38-0

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### 3. HAZARDS IDENTIFICATION:

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Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitisation by inhalation and skin contact.

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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 from exposure. If recovery not rapid or complete seek medical attention.

**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.

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### 5. FIRE FIGHTING MEASURES:

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<b>EXTINGUISHING MEDIA:</b>	Water spray, fog or mist, carbon dioxide (CO <sub>2</sub> ), alcohol resistant foam, dry chemicals, sand, dolomite etc.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Finely divided material can cause dust explosion.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Thermal decomposition may release noxious, corrosive or toxic vapours.
<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. Avoid breathing dust.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Avoid dry sweeping or other methods which raise dust. 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 creating or raising dust. Avoid contact with skin or eyes.
<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 COMMENTS:</b>	No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA ref. period) level does not exceed 10 mg.m <sup>3</sup> for total inhalable dust or 4 mg.m <sup>3</sup> for respirable dust (or) as recommended in current edition of EH40.
<b>VENTILATION:</b>	Provide adequate general and local exhaust ventilation.
<b>RESPIRATORS:</b>	In case of insufficient ventilation, for short periods of work, a suitable approved dust protection to P2 standard is recommended.
<b>PROTECTIVE GLOVES:</b>	Use protective gloves.
<b>EYE PROTECTION:</b>	Use eye protection.
<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>	Yellow fine crystalline powder.
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**PHYSICAL DATA COMMENTS:** Minimum ignition temperature (of dust cloud) - 680°C.  
**MELT/FREEZ.POINT (°C, interval):** mp. ~180°C  
**SOLUBILITY DESCRIPTION:** Insoluble in water. Soluble in: Ordinary solvents.

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## 10. STABILITY AND REACTIVITY:

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**STABILITY:** Stable under normal conditions of use.  
**CONDITIONS TO AVOID:** Avoid dust formation. Risk of dust explosion.  
**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition or burning may release oxides of carbon and other hazardous gases or vapours.

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## 11. TOXICOLOGICAL INFORMATION:

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LD50. Oral. Rat. ~3200 mg/kg  
LD50. Oral. Mouse. 1542 mg/kg

**HEALTH HAZARDS, GENERAL:** Extremely irritating to eyes and respiratory system. Onset of symptoms may appear long after the exposure.

**INHALATION:** Extremely irritating to mucous membranes and respiratory system. May cause sensitisation by inhalation.

**INGESTION:** Ingestion will cause gastric irritation and vomiting. Ingestion may cause mucous membranes to bleed.

**SKIN:** Repeated or prolonged contact may cause skin irritation and sensitisation.

**EYES:** May cause eye irritation, burning sensation or lacrymation. Visual disturbances, incl. blurred vision.

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## 12. ECOLOGICAL INFORMATION:

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**ECOLOGICAL INFORMATION:** No specific data or information available regarding environmental impact. Unlikely to pose ecological risk.

**BIO ACCUMULATION:** Not expected to bio-accumulate.

**DEGRADABILITY:** Low solubility in water indicates that the material is likely to persist in the environment.

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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-20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R-41 Risk of serious damage to eyes.  
R-40 Limited evidence of a carcinogenic effect.  
R-42/43 May cause sensitisation by inhalation and skin contact.

**SAFETY PHRASES:** S-22 Do not breathe dust.  
S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**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.:** 177

**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.