



# SAFETY DATA SHEET

## PHENOL

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

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**PRODUCT NAME:** PHENOL  
**PART No.:** RM193  
**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.:** 604-001-00-2  
**EEC (EINECS) No.** 203-632-7  
**CAS No.:** 108-95-2

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### 3. HAZARDS IDENTIFICATION:

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Toxic in contact with skin and if swallowed. Causes burns.

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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.

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

**SKIN:** Remove contaminated clothing. Wash affected area with plenty of soap and water for 15 minutes then swab with glycerol/IMS mixture (70/30%). Obtain medical attention. Launder clothing before re-use.

**EYES:** Keeping eye open, immediately irrigate with water or eye-wash for 15 minutes. Obtain medical attention.

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## 5. FIRE FIGHTING MEASURES:

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<b>EXTINGUISHING MEDIA:</b>	Foam, dry chemical or carbon dioxide.
<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>	Noxious or toxic vapours may be released in fire situation.
<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.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or 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 vapour inhalation, skin and eye contact.
<b>STORAGE PRECAUTIONS:</b>	Avoid direct sunlight. 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>
PHENOL	108-95-2	OES	5 ppm(Sk)	10 ppm(Sk)

<b>PROCESS CONDITIONS:</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION:</b>	Work in a fume cupboard or use local exhaust ventilation. Respiratory protection required in insufficiently ventilated working areas.
<b>RESPIRATORS:</b>	If unable to control vapour emissions below OES limits, wear self contained breathing apparatus.
<b>PROTECTIVE GLOVES:</b>	Use impervious gloves made of butyl rubber or PVC.
<b>EYE PROTECTION:</b>	Approved chemical safety goggles or face protection.
<b>OTHER PROTECTION:</b>	Wear protective clothing and closed footwear. Wear suitable personal protective equipment appropriate to the task.
<b>HYGIENIC WORK PRACTICES:</b>	<b>SKIN PROTECTION</b> - apply barrier cream to hands and exposed skin. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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<b>APPEARANCE:</b>	Colourless or pale pink needle shaped crystals or crystalline masses.		
<b>ODOUR/TASTE:</b>	Characteristic phenolic odour.		
<b>BOILING POINT (°C, interval):</b>	182	<b>Pressure:</b>	
<b>MELT/FREEZ. POINT (°C, interval):</b>	mp. 40°C		
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	1.07	<b>Temperature (°C):</b>	20
<b>VAPOUR DENSITY (air=1):</b>	3.24		
<b>VAPOUR PRESSURE:</b>	1 mmHg	<b>Temperature (°C):</b>	40°
<b>pH-VALUE, CONC. SOLUTION:</b>	5 - (50g/l aqueous solution)		
<b>SOLUBILITY DESCRIPTION:</b>	Soluble in water.		
<b>FLASH POINT (°C):</b>	80	<b>Method:</b>	

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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 moisture. Material is hygroscopic.
<b>MATERIALS TO AVOID:</b>	Natural rubbers, aluminium, brass, copper, galvanised iron. Aldehydes, halogens, hydrogen peroxide, nitrates, nitrites.
<b>HAZARDOUS DECOMP. PRODUCTS:</b>	Noxious, toxic or corrosive vapours may be released in a fire situation.

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## 11. TOXICOLOGICAL INFORMATION:

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<b>Toxicological data</b>	LD50. Skin. Rat. 660 mg/kg
<b>TOXIC DOSE - LD 50:</b>	317 mg/kg (oral rat)
<b>INHALATION:</b>	Irritating to mucous membranes. Irritating to the respiratory system. Over exposure may cause pulmonary oedema.
<b>INGESTION:</b>	May cause burns to mucous membranes, throat and stomach. Toxic/systemic effects may cause, nausea, muscular weakness, shock or collapse.
<b>SKIN:</b>	May cause systemic effects (poisoning) by skin absorption. Fat soluble and rapidly absorbed through the skin. Initially painless due to anaesthetising effect then irritation, rash or burning may develop. Affected tissue becomes white. Contact with skin area of approx. 20cm <sup>2</sup> has been known to be fatal. Causes burns and may cause dermatitis. Sensitisation possible in predisposed persons.
<b>EYES:</b>	Causes burns. May cause severe corneal damage.
<b>OTHER HEALTH EFFECTS:</b>	Has been found to cause cancer in laboratory animals. May cause adverse mutagenic effects.
<b>ROUTE OF ENTRY:</b>	Skin absorption. Inhalation.
<b>TARGET ORGANS:</b>	Central nervous system, lungs, liver and kidneys.

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**12. ECOLOGICAL INFORMATION:**

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**ECOLOGICAL INFORMATION:** Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination.

**DEGRADABILITY:** Chemical oxygen demand (COD) - 2.33g O<sub>2</sub>/g.  
Biological oxygen demand (BOD 5 day) - 1.68g O<sub>2</sub>/g.

**WATER HAZARD CLASSIFICATION:** Hazard to drinking water supply.

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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: H6, H8

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**14. TRANSPORT INFORMATION:**

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**UK ROAD PACK GR.:** II

**ADR CLASS No.:** 6.1

**ADR CLASS:** Division 6.1: Toxic substances.

**ADR ITEM No.:** 14°(b)

**HAZARD No. (ADR):** 60 Toxic or slightly toxic substance.

**ADR MARGINAL:** 2601

**ADR LABEL No.:** 6.1

**HAZCHEM CODE:** 2X

**PROPER SHIPPING NAME I:** PHENOL, SOLID

**UN No. SEA:** UN 1671

**IMDG CLASS:** 6.1

**IMDG PAGE No.:** 6225

**IMDG PACK GR.:** II

**UN No., AIR:** UN-ID 1671

**ICAO CLASS:** 6.1

**AIR PACK GR.:** II

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**15. REGULATORY INFORMATION:**

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**LABEL FOR SUPPLY:**

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**RISK PHRASES:** R-24/25 Toxic in contact with skin and if swallowed.  
R-34 Causes burns.

**SAFETY PHRASES:** S-1/2 Keep locked up and out of the reach of children.  
S-28 After contact with skin, wash immediately with plenty of water.  
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

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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): all sections.

**ISSUED BY:** MK

**SDS No.:** 341

**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.