



# SAFETY DATA SHEET

## CHLOROFORM

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

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PRODUCT NAME:	CHLOROFORM
CHEMICAL NAME 2:	TRICHLOROMETHANE
PART No.:	RM073
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.:	602-006-00-4
EEC (EINECS) No.	200-663-8
CAS No.:	67-66-3

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### 3. HAZARDS IDENTIFICATION:

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Harmful if swallowed. Irritating to skin. Limited evidence of a carcinogenic effect.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Carcinogen Category 3.  
Carc. Cat.3

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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 out. 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.
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>	This material is not flammable. Use extinguishing media suitable against surrounding fire or the cause of fire.
<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>	Thermal decomposition may release noxious, corrosive or toxic vapours. - hydrogen chloride fumes, phosgene vapour.
<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>	Wear appropriate protective clothing. Do not breathe vapour or fumes.
<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>	The product should be used in accordance with good industrial safety practice and hygiene principles for handling and storing of chemicals. Ensure good ventilation and local exhaust extraction in work place.
<b>STORAGE PRECAUTIONS:</b>	Avoid direct sunlight. Store in a cool, dry, well ventilated place, in securely closed original container. May attack some plastics, rubber and coatings.

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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>
CHLOROFORM	67-66-3	OES	2 ppm(Sk)	

<b>INGREDIENT COMMENTS:</b>	Sk - can be absorbed by skin contact.
<b>VENTILATION:</b>	Provide sufficient ventilation during operations which cause vapour formation. Work in a fume cupboard or use local exhaust ventilation.
<b>RESPIRATORS:</b>	For short periods of work, a suitable RPE fitted with a combination A1 filter is recommended.
<b>PROTECTIVE GLOVES:</b>	Use impervious gloves made of polyvinyl alcohol (PVA) or PTFE (teflon). Non-recommended materials: PVC, rubber.
<b>EYE PROTECTION:</b>	Approved chemical safety goggles or face protection.
<b>OTHER PROTECTION:</b>	Wear protective clothing and closed footwear. Apron. Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	SKIN PROTECTION - use appropriate barrier cream to prevent defatting and cracking of skin.

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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

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APPEARANCE:	Clear colourless liquid. At low temperatures may be slightly cloudy.		
ODOUR/TASTE:	Characteristic sweet odour.		
DENSITY/SPECIFIC GRAVITY (g/ml):	1.48	Temperature (°C):	
VAPOUR DENSITY (air=1):	4.1		
VAPOUR PRESSURE:	207 mbar	Temperature (°C):	20
VISCOSITY (interval):	0.57 mPas	Temperature (°C):	20
SOLUBILITY DESCRIPTION:	Soluble in: most organic solvents.		
SOLUBILITY VALUE (g/100g H <sub>2</sub> O 20°C):	8g/l @ 20°C		
DECOMPOSITION TEMP. (°C):	> 290°C		
FLASH POINT (°C):	229	Method:	
AUTO IGNITION TEMP. (°C):	445		

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**10. STABILITY AND REACTIVITY:**

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STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid excessive heat.
MATERIALS TO AVOID:	Oxidising agents. Non-iron metals, aluminium, magnesium, zinc...
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition may release noxious, toxic or corrosive gases or vapours. - phosgene, hydrogen chloride.

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**11. TOXICOLOGICAL INFORMATION:**

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	Acute toxicity. LD50. Oral. Rat. 908 mg/kg
	Acute toxicity. LC50. 4 hours. Inhalation. Rat. 47.7 mg/l
	Acute toxicity. LD50. Skin. Rabbit. >3980 mg/kg
HEALTH HAZARDS, GENERAL:	Toxic by inhalation. Irritating to mucous membrane and eyes. Risk of kidney, liver and nervous system effects.
INHALATION:	Vapour has anaesthetic properties, causing drowsiness, intoxication, nausea, vomiting, unconsciousness.
INGESTION:	May cause liver and/or renal damage.
SKIN:	Repeated or prolonged contact may cause dermatitis. Repeated contact will cause drying of skin.
EYES:	Irritating to eyes.
OTHER HEALTH EFFECTS:	Has been found to cause cancer in laboratory animals. Target organs liver/kidney. Foetotoxic and fertility effects.
TARGET ORGANS:	Central nervous system. Liver. Kidneys.

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**12. ECOLOGICAL INFORMATION:**

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	Acute toxicity. LC50 96 hours fish (Salmo gairdneri) 18 mg/l
	Acute toxicity. EC50 48 hours Daphnia (D. magna) 29 mg/l
	Chronic toxicity. LC50 28 days fish (Salmo gairdneri) 1.24 - 2.3 mg/l
<b>ECOLOGICAL INFORMATION:</b>	Harmful to aquatic organisms.
<b>MOBILITY:</b>	Lost within short period through evaporation and dissolution. Material can potentially percolate into soil.
<b>BIO ACCUMULATION:</b>	Low bioaccumulation potential.
<b>DEGRADABILITY:</b>	Potentially biodegradable. (under adapted aerobic/anaerobic conditions).

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**13. DISPOSAL CONSIDERATIONS:**

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<b>DISPOSAL METHODS:</b>	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.
<b>WASTE CLASS:</b>	WASTE CODE: 0705** HAZARDOUS PROPERTY: H6, H14

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**14. TRANSPORT INFORMATION:**

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**LABEL FOR CONVEYANCE:**

<b>UN No. ROAD:</b>	1888
<b>ADR CLASS No.:</b>	6.1
<b>ADR CLASS:</b>	Division 6.1: Toxic substances.
<b>ADR ITEM No.:</b>	15°(c)
<b>HAZARD No. (ADR):</b>	60 Toxic or slightly toxic substance.
<b>ADR MARGINAL:</b>	2601
<b>HAZCHEM CODE:</b>	2Z
<b>PROPER SHIPPING NAME I:</b>	CHLOROFORM
<b>UN No. SEA:</b>	UN 1888
<b>IMDG CLASS:</b>	6.1

IMDG PAGE No.:	6103
IMDG PACK GR.:	III
UN No., AIR:	UN-ID 1888
ICAO CLASS:	6.1
AIR PACK GR.:	III

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## 15. REGULATORY INFORMATION:

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### LABEL FOR SUPPLY:



RISK PHRASES:	R-22 Harmful if swallowed. R-38 Irritating to skin. R-40 Limited evidence of a carcinogenic effect. R-48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
SAFETY PHRASES:	S-36/37 Wear suitable protective clothing and gloves. P-10 For use in industrial installations only.
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.:	119
DATE:	12/07/02
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