



SAFETY DATA SHEET

CAMPHOR SPIRIT

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

PRODUCT NAME: CAMPHOR SPIRIT
PART No.: M050
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
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2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
CAS No.:			
ETHANOL			60-100 %
64-17-5	200-578-6	F R-11	
CAMPHOR (RACEMIC)			10-30 %
		Xn R-22, 36/38	

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION:

Highly flammable.

4. FIRST AID MEASURES:

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: 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.

EYES: Rinse immediately with copious amounts of water. If irritation or discomfort persists,

seek medical attention.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Alcohol resistant foam. Carbon dioxide (CO ₂). Dry chemicals, sand, dolomite etc. Halon.
SPECIAL FIRE FIGHTING PROCEDURES:	Use gentle application of water spray to keep exposed containers cool or to dissipate vapour.
UNUSUAL FIRE & EXPLOSION HAZARDS:	May explode when heated or when exposed to flames or sparks. Vapour may travel considerable distance to source of ignition and flash back.
HAZARDOUS COMBUSTION PRODUCTS:	Burning will produce oxides of carbon.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Wear appropriate protective clothing. Eliminate all sources of ignition. Ventilate area to dispel residual vapour or fumes.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	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.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Spillages will create a fire hazard. Avoid vapour formation and ignition sources. Avoid inhalation of vapours. Ensure good ventilation and local exhaust extraction in work place. (engineering controls must be to explosion/flameproof standard). Earth container and transfer equipment to eliminate accumulation of static charge.
STORAGE PRECAUTIONS:	Store in a cool, dry, well ventilated place, in securely closed original container. Flammable/combustible - Keep away from oxidising agents, heat and flames.
STORAGE CRITERIA:	Flammable liquid storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
CAMPHOR (RACEMIC)		OES	2 ppm	3 ppm
ETHANOL	64-17-5	OES	1000 ppm	No std.

VENTILATION:	Provide adequate general and local exhaust ventilation. Work in fume cupboard.
RESPIRATORS:	For short periods of work, a suitable RPE fitted with a combination charcoal or organic vapour cartridge is recommended.
PROTECTIVE GLOVES:	Use impervious gloves made of butyl rubber or PVC.
EYE PROTECTION:	Approved chemical safety goggles or face protection.

OTHER PROTECTION:	Use engineering controls to reduce air contamination to permissible exposure level. Engineering controls should be to explosion/flameproof standard. Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Clear colourless liquid.		
ODOUR/TASTE:	Characteristic odour of ethanol and camphor.		
BOILING POINT (°C, interval):	~ 78 (ethanol)	Pressure:	
DENSITY/SPECIFIC GRAVITY (g/ml):	~ 0.84	Temperature (°C):	20
VAPOUR DENSITY (air=1):	1.59 (ethanol)		
VAPOUR PRESSURE:	(for ethanol) - 5.81 kPa	Temperature (°C):	20
EVAPORATION RATE:	3.4 (ethanol)	Reference:	BuAc=1
SOLUBILITY DESCRIPTION:	Miscible with water. Soluble in: Organic solvents (most).		
FLASH POINT (°C):	~ 13 (ethanol)	Method:	CC (Closed cup).
AUTO IGNITION TEMP. (°C):	~ 365 (ethanol)		
FLAMMABILITY LIMIT - LOWER (%):	3.3 (ethanol)		
FLAMMABILITY LIMIT - UPPER (%):	19 (ethanol)		

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition. Avoid accumulation of static electricity.
MATERIALS TO AVOID:	Oxidising agents. Sulphuric acid, Nitric acid.
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition or burning will release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50:	7060 (ethanol); 1310 (camphor) mg/kg (oral rat)
HEALTH HAZARDS, GENERAL:	Intoxicating if inhaled or ingested.
INHALATION:	May cause transient irritation to the respiratory system. Exposure to high vapour concentration may cause central nervous system depression or systemic effects similar to those of ingestion.
INGESTION:	May cause nausea, vomiting, dizziness and depression of CNS. Aspiration during swallowing or vomiting may severely damage the lungs.
SKIN:	Repeated or prolonged contact may cause mild irritation and/or drying (defatting) of skin.
EYES:	May cause transient eye irritation or damage.
OTHER HEALTH EFFECTS:	For ethanol component of the preparation, adverse effects on male reproductive system

have been reported in laboratory animals on prolonged exposure.
Inconsistent mutagenic activity has been reported.

ROUTE OF ENTRY: Inhalation.

12. ECOLOGICAL INFORMATION:

Ecotoxicological data LC50 24 hours fish (trout) 11400 mg/l (for ethanol component of the preparation)

ECOLOGICAL INFORMATION: No specific data or information available regarding environmental impact.

DEGRADABILITY: For ethanol component of preparation - BOD5 = 37.74% of ThOD; BOD20 = 75-84% of ThOD.

13. DISPOSAL CONSIDERATIONS:

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: H3-A

14. TRANSPORT INFORMATION:

ADR CLASS No.: 3

ADR CLASS: Class 3: Flammable liquids.

ADR ITEM No.: 3°(b)

HAZARD No. (ADR): 33 Highly flammable liquid (flash-point below 23°C).

ADR MARGINAL: 2301

ADR LABEL No.: 3

HAZCHEM CODE: 3YE

PROPER SHIPPING NAME I: FLAMMABLE LIQUID, NOS

PROPER SHIPPING NAME II: Technical name: (contains ethanol)

ROAD TRANSPORT NOTES: Flash point: 13°C

UN No. SEA: UN 1993

IMDG CLASS: 3.2

IMDG PAGE No.: 3230

IMDG PACK GR.: II

MARINE POLLUTANT: No.

UN No., AIR: UN-ID 1993

ICAO CLASS: 3

AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES: R-11 Highly flammable.

SAFETY PHRASES: S-16 Keep away from sources of ignition - No Smoking.
S-23B Do not breathe vapour.
S-25 Avoid contact with eyes.

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

16. OTHER INFORMATION:

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

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

ISSUED BY: MK

SDS No.: M031

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.

R-PHRASES (Full Text): R-22 Harmful if swallowed. R-36/38 Irritating to eyes and skin. R-11 Highly flammable.