

# SAFETY DATA SHEET CAMPHOR (RACEMIC)

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

PRODUCT NAME: CAMPHOR (RACEMIC)

CH EM ICA L NAME 2: BORNAN-2-ONE

PART No.: RM056

SYNONYMS, TRADE NAMES: 2-CAMPHANONE; 2-BORNANONE;

SUPPLIER: J M Loveridge plc

Southbrook Road, Southampton

Hampshire SO15 1BH

Tel: 023 8022 2008 Fax: 023 8022 2117

## 2. COMPOSITION/INFORMATION ON INGREDIENTS:

# 3. HAZARDS IDENTIFICATION:

Harmful if swallowed. Irritating to eyes and skin.

Flammable solid.

#### 4. FIRST AID MEASURES:

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

MEDICAL ATTENTION

INHALATION: Remove affected person from exposure, rest and keep warm. 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).

SKIN: Remove contaminated clothing. Wash affected area with plenty of soap and water. If

symptoms occur or persist, obtain 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:

**EXTINGUISHING MEDIA:** Water spray, foam, dry powder or carbon dioxide.

UNUSUAL FIRE & EXPLOSION

HAZARDS:

May explode in a fire. Vapours may ignite. Vapour may travel considerable distance to

source of ignition and flash back.

HAZARDOUS COMBUSTION

PRODUCTS:

Burning may release oxides of carbon and other hazardous gases or vapours. Camphor

burns readily with bright smokey flame.

PROTECTIVE MEASURES IN FIRE: Fire fighters should wear self-contained breathing apparatus.

#### 6. A CCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL: Avoid breathing dust. 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: Vacuum or wet-sweep and place into a suitable closable, labelled container for 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. Avoid creating or raising dust.

STO RAGE PRECAUTIONS: Store in a cool, dry, well ventilated place, in securely closed original container.

STORAGE CRITERIA: Flammable solid storage. Securely sealed in original container.

## 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

INGREDIENT COMMENTS: Refer to the current edition of HSE Guidance Note EH 40/200\* for occupational

exposure limits; - camphor listed as bornan-2-one.

VENTILATION: Provide adequate general and local exhaust ventilation.

**RESPIRATORS:** If unable to control dust emissions below OES limits, an approved dust protection to P2

level of protection is recommended.

**PROTECTIVE GLOVES:** Use impervious gloves.

EYE PROTECTION: Use eye protection.

OTHER PROTECTION: Wear personal protective equipment appropriate to the quantity of material handled.

HY GIENIC WORK PRACTICES: SKIN PROTECTION - apply barrier cream to hands and exposed skin.

Regularly vacuum dust to minimise the potential of air-borne exposure.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Colourless transparent crystals.

ODOUR/TASTE: Characteristic, aromatic odour.

MELT/FREEZ.POINT (°C, interval): mp. 174 - 181°C

DENSITY/SPECIFIC GRAVITY (g/ml): ~ 0.996 Temperature (°C):

VAPOUR DENSITY (air=1): 5.24

SOLUBILITY DESCRIPTION: Insoluble in water. Soluble in most organic solvents.

FLASH POINT (°C): 66 Method: CC (Closed cup).

AUTO IGNITION TEMP. (°C): 466

FLAMMABILITY LIMIT - 0.6

LOWER(%):

FLAMMABILITY LIMIT - UPPER (%): 3.5

## 10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.

CONDITIONS TO A VOID: Avoid heat, flames and other sources of ignition. Risk of dust ignition in air.

MATERIALS TO AVOID: Potassium permanganate, resorcinol.

Strong oxidising agents.

HAZARDOUS DECOMP. PRODUCTS: Thermal decomposition or burning may release oxides of carbon and other hazardous

gases or vapours.

#### 11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50: 1310 mg/kg (oral rat)

HEALTH HAZARDS, GENERAL: Irritating to eyes or if inhaled as dust. High vapour concentration may cause irritation to

eyes and mucous membranes.

INHALATION: Inhalation symptoms similar to those of ingestion.

INGESTION: May cause nausea, vomiting, abdominal pain, drowsiness. May cause loss of

coordination and loss of consciousness.

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

EYES: May cause irritation to eyes.

MEDICAL SYMPTOMS: May cause loss of sense of smell.

## 12. ECOLOGICAL INFORMATION:

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

to the environment.

## 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: H5

### 14. TRANSPORT INFORMATION:

UK ROAD PACK GR.: III

ADR CLASS No.: 4.1

ADR CLASS: Division 4.1: Flammable solids.

ADR ITEM No.:  $6^{\circ}(c)$ 

HAZARD No. (ADR): 40 Flammable or self heating solid.

ADR MARGINAL: 2401
HAZCHEM CODE: 1Z

PROPER SHIPPING NAME I: CAMPHOR, synthetic

UN No. SEA: UN 2717

IM DG CLASS: 4.1

IM DG PAGE No.: 4132

IM DG PACK GR::

UN No., AIR: UN-ID 2717

ICAO CLASS: 4.1
AIR PACK GR.: III

# 15. REGULATORY INFORMATION:

# LABEL FOR SUPPLY:



RISK PHRASES: R-22 Harmful if swallowed.

R-36/38 Irritating to eyes and skin.

SAFETY PHRASES: S-22 Do not breathe dust.

S-26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S-46 If swallowed seek medical advice immediately and show this container label.

COMMENTS:

Classified in accordance with suppliers data/information.

Keep away from sources of ignition - no smoking.

## 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.: 091

**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

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.