

# SAFETY DATA SHEET CAFFEINE CITRATE

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PRODUCT NAME: CAFFEINE CITRATE

CH EM ICA L NA ME 2: 1,3,7-Trimethyl-1,2,6-tetrahydropurine, 2-hydroxy-1,2,3-propantricarbonic acid (1:1)

PART No.: RM293

SUPPLIER: J M Loveridge plc

Southbrook Road, Southampton

Hampshire SO15 1BH

Tel: 023 8022 2008 Fax: 023 8022 2117

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS No.: 69-22-7

## 3. HAZARDS IDENTIFICATION:

Harmful by inhalation and if swallowed. Risk of serious damage to eyes.

#### 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. Launder clothing before re-use.

**EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for

at least 15 minutes and get medical attention.

#### 5. FIRE FIGHTING MEASURES:

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

SPECIAL FIRE FIGHTING

PROCEDURES:

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.

UNUSUAL FIRE & EXPLOSION

HAZARDS:

Finely divided material can cause dust explosion.

HAZARDOUS COMBUSTION

PRODUCTS:

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

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

## 6. A CCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL: Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.

PRECAUTIONS TO PROTECT

ENVIRONMENT:

Prevent contamination of soil, drains and surface water.

SPILL CLEAN UP METHODS: Cover spillage with damp inert material, take-up or collect and place into a suitable

closable labelled container for disposal. Avoid dry sweeping or other methods which raise dust. 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. Avoid contact with skin or eyes.

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

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS: No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA

ref. period) level does not exceed  $10~\mathrm{mg.m3}$  for total inhalable dust or  $4~\mathrm{mg.m3}$  for

respirable dust (or) as recommended in current edition of EH40.

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: Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION: Use engineering controls to reduce air contamination to permissible exposure level.

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: White powder.

ODOUR/TASTE: Odourless or no characteristic odour.

PHYSICAL DATA COMMENTS: Fine dust may create explosive mixture with air. Dust explosion hazard ST2.

MELT/FREEZ.POINT (°C, interval): mp.: 150°C

DENSITY/SPECIFIC GRAVITY (g/ml): Apparent density: Temperature (°C):

 $500 \,\mathrm{kg/m}\,3$ 

pH-VALUE, DILUTED SOLUTION: 3 (20% aqueous soln.) Concentration % M:

**SOLUBILITY DESCRIPTION:** Soluble in water.

SOLUBILITY VALUE (g/100g H2O

20°C):

95g/litre

#### 10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.

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

#### 11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50: 685 mg/kg (oral rat)

HEALTH HAZARDS, GENERAL: Irritating to eyes or if inhaled as dust.

SKIN: No irritant effect or sensitising effect.

EYES: Risk of serious damage to eye.

## 12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: No specific information available, but material is expected to have adverse effect on the

environment.

WATER HAZARD CLASSIFICATION: Water hazard class 1.

### 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: H6

# 14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

#### 15. REGULATORY INFORMATION:

#### LABEL FOR SUPPLY:



RISK PHRASES: R-20/22 Harmful by inhalation and if swallowed.

R-41 Risk of serious damage to eyes.

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

medical advice.

S-39 Wear eye/face protection.

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

UK REGULATORY REFERENCES: The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard

Information & Packaging) Regulations 1993. Classification, Packaging and Labelling

Regulations 1984.

#### 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.: 441

**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.