



SAFETY DATA SHEET

SODIUM CITRATE

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

PRODUCT NAME: SODIUM CITRATE
CHEMICAL NAME 2: Trisodium 2-hydroxy 1,2,3-propanetricarboxylic acid dihydrate
PART No.: RM243
SYNONYMS, TRADE NAMES: TRISODIUM CITRATE DIHYDRATE
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EEC (EINECS) No. 200-675-3
CAS No.: 6132-04-3

3. HAZARDS IDENTIFICATION:

Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES:

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
INHALATION: Move affected person from exposure.
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). Obtain medical attention if adverse symptoms occur.
SKIN: Causes mechanical irritation. Wash affected area with plenty of soap and water.
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, fog or mist, carbon dioxide (CO ₂), alcohol resistant foam, dry chemicals, sand, dolomite etc.
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. ACCIDENTAL RELEASE MEASURES:

PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	Avoid dry sweeping or other methods which raise dust. 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:	The product should be used in accordance with good industrial safety practice and hygiene principles for handling and storing of chemicals.
STORAGE PRECAUTIONS:	Store in a cool, dry, well ventilated place, in securely closed original container. Store away from sources of heat or ignition.

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 mg.m ³ for total inhalable dust or 4 mg.m ³ 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 protective gloves.
EYE PROTECTION:	Use eye protection if eye contact is likely.
OTHER PROTECTION:	Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC 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 crystals. White crystalline powder or granules.		
DENSITY/SPECIFIC GRAVITY (g/ml):	1.76	Temperature (°C):	

BULK DENSITY:	920 - 1100 kg/m ³		
pH-VALUE, DILUTED SOLUTION:	7.5 - 9	Concentration % M:	(5% aqueous soln.)
SOLUBILITY DESCRIPTION:	Soluble in water. Insoluble in: Alcohol.		
SOLUBILITY VALUE (g/100g H₂O 20°C):	42.5% w/w @ 25°C		
DECOMPOSITION TEMP. (°C):	~ 150°C (loss of water); above 230°C may evolve oxides of carbon		
AUTO IGNITION TEMP. (°C):	Combustible		

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid excessive heat. Avoid temperatures above 30°C and 70% relative humidity.
MATERIALS TO AVOID:	Oxidising agents.
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition or burning will release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50:	7150 mg/kg (oral rat)
INHALATION:	High concentration of dust may cause transient irritation to the upper respiratory tract.
INGESTION:	Ingestion of small amounts is unlikely to cause any adverse effects. Ingestion of (excessive amounts) may cause vomiting, nausea, convulsions.
SKIN:	Repeated or prolonged contact may cause mild irritation and/or drying (defatting) of skin.
EYES:	May cause transient eye irritation and discomfort.

12. ECOLOGICAL INFORMATION:

DEGRADABILITY:	98% within 2 to 24 hours. COD - 480 mg O ₂ /g.
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13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:	Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.
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14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

UK REGULATORY REFERENCES: This product is not classed as dangerous substance under the classification, packaging and labelling of dangerous substances regulations.

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.