



SAFETY DATA SHEET

POTASSIUM CHLORATE

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

PRODUCT NAME: POTASSIUM CHLORATE
PART No.: RM207
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EU INDEX No.: 017-004-00-3
EEC (EINECS) No. 223-289-7
CAS No.: 3811-04-9

3. HAZARDS IDENTIFICATION:

Explosive when mixed with combustible material. Harmful by inhalation and if swallowed.

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). 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: 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:

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| EXTINGUISHING MEDIA: | Water spray, fog or mist. DO NOT use foam. |
| UNUSUAL FIRE & EXPLOSION HAZARDS: | May ignite combustible materials. Mixtures with fuel may explode. Explosion hazard when vapours are exposed to flames. |
| HAZARDOUS COMBUSTION PRODUCTS: | Noxious or toxic vapours may be released in fire situation. Chlorine vapour and oxygen. |
| PROTECTIVE MEASURES IN FIRE: | Fire fighters should wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES:

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| PERSONAL PRECAUTION IN SPILL: | Avoid breathing dust. Wear appropriate protective clothing. Eliminate all sources of ignition. |
| PRECAUTIONS TO PROTECT ENVIRONMENT: | Prevent material from entering drains or water courses. Advise the Environment Agency or relevant local authority if contamination of soil or water systems occurs. |
| SPILL CLEANUP METHODS: | Avoid dry sweeping or other methods which raise dust. Do not use combustible materials (such as sawdust) to soak-up spillages. 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:

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| USAGE PRECAUTIONS: | HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Ensure good ventilation and local exhaust extraction in work place. |
| STORAGE PRECAUTIONS: | Oxidizing material - Keep away from flammable and combustible materials. Store in a cool, dry, well ventilated place, in securely closed original container. |
| STORAGE CRITERIA: | Oxidizer storage. |

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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| 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: | In case of insufficient ventilation, for short periods of work, a suitable approved dust protection to P2 standard 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:

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| APPEARANCE: | White crystalline powder or granules. | | |
| MELT/FREEZ. POINT (°C, interval): | mp. 368°C | | |
| DENSITY/SPECIFIC GRAVITY (g/ml): | 2.34 | Temperature (°C): | 20°C |
| BULK DENSITY: | 1.3 kg/l | | |
| SOLUBILITY DESCRIPTION: | Very soluble in water. | | |
| DECOMPOSITION TEMP. (°C): | ~ 400 | | |

10. STABILITY AND REACTIVITY:

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| STABILITY: | Stable under normal conditions of use. |
| CONDITIONS TO AVOID: | Damp storage conditions. Product is corrosive to metals in the presence of moisture. May explode on heating. May explode on ignition when mixed with finely divided combustible materials. |
| MATERIALS TO AVOID: | Ammonium salts, amines, metals in powder form and their oxides, sulphur and sulphur containing compounds, cyanides, carbon. Potassium nitrate. Strong acids, flammable solvents, combustible materials. |
| HAZARDOUS DECOMP. PRODUCTS: | Thermal decomposition may release noxious, toxic or corrosive gases or vapours. - Chlorine. Oxygen is readily liberated when product is heated and can burn with explosive violence when fuels or organic materials are present. Reaction with strong acids will liberate chlorine. |

11. TOXICOLOGICAL INFORMATION:

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| TOXIC DOSE - LD 50: | 1870 mg/kg (oral rat) |
| HEALTH HAZARDS, GENERAL: | Irritating to eyes or if inhaled as dust. |
| INHALATION: | Harmful if inhaled as dust. Product is absorbed through lungs and may cause symptoms similar to those of ingestion. |
| INGESTION: | Ingestion will cause gastric irritation and vomiting. Other symptoms may include headache, drowsiness, shock or unconsciousness. |
| SKIN: | Irritating to skin. Not absorbed through skin. |
| EYES: | Irritating to eyes. |
| HEALTH WARNINGS: | May cause liver and/or renal damage. |
| MEDICAL SYMPTOMS: | Symptoms may not appear until several hours after exposure. The casualty may become blue around mouth, face and hands, urine may discolour red or brown. |

12. ECOLOGICAL INFORMATION:

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| ECOLOGICAL INFORMATION: | Non-selectively toxic to plants. |
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Very toxic to brown algae.

MOBILITY: Soluble in water. Predicted to have high mobility in soil. Expected to disperse quickly within water systems. Breakdown products are potassium chloride and oxygen.

BIO ACCUMULATION: Not expected to bio-accumulate.

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: H2, H5

14. TRANSPORT INFORMATION:

UN No. ROAD: 1485

UK ROAD PACK GR.: II

ADR CLASS No.: 5.1

ADR CLASS: Division 5.1: Oxidizing substances.

ADR ITEM No.: 11°(b)

HAZARD No. (ADR): 50 Oxidizing (fire-intensifying) substance.

ADR MARGINAL: 2501

ADR LABEL No.: 5.1

HAZCHEM CODE: 1YE

PROPER SHIPPING NAME I: POTASSIUM CHLORATE

UN No. SEA: UN 1485

IMDG CLASS: 5.1

IMDG PAGE No.: 5169

IMDG PACK GR.: II

UN No., AIR: UN-ID 1485

ICAO CLASS: 5.1

AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



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| RISK PHRASES: | R-9 Explosive when mixed with combustible material. R-20/22 Harmful by inhalation and if swallowed. |
| SAFETY PHRASES: | S-2 Keep out of reach of children. S-13 Keep away from food, drink and animal feeding stuffs. S-16 Keep away from sources of ignition - No Smoking. S-27 Take off immediately all contaminated clothing. |
| UK REGULATORY REFERENCES: | Chemicals (Hazard Information & Packaging) Regulations 1993. Classification, Packaging and Labelling Regulations 1984. |

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.: | 367 |
| DATE: | 12/07/02 |
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