SAFETY DATA SHEET

ALUM (POTASH)

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

PRODUCT NAME: ALUM (POTASH)
PART No.: RM 009
SYNONYMS, TRADE NAMES: POTASH ALUM, POTASSIUM ALUMINIUM SULPHATE
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.: 7784-24-9

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 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: 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: Use extinguishing media suitable against surrounding fire or the cause of fire.
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.

HAZARDOUS COMBUSTION PRODUCTS: Toxic or corrosive vapours may be released in fire situation.

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

6. ACCIDENTAL 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 CLEANUP METHODS: Cover spillage with damp inert material, take-up or collect 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.

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

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME: ALUM (POTASH)

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<tr>
<th>CAS No.:</th>
<th>STD</th>
<th>LT EXP 8 Hrs</th>
<th>ST EXP 15 Min</th>
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<tr>
<td>7784-24-9</td>
<td>OES</td>
<td>2 mg/m3</td>
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INGREDIENT COMMENTS: Refer to current edition of HSE Guidance Note EH40 - entry under aluminium salts, soluble. No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA ref. period) level does not exceed 10 mg.m3 for total inhalable dust or 4 mg.m3 for respirable dust (or) as recommended in current edition of EH40.

VENTILATION: Provide adequate general and local exhaust ventilation. If unable to control dust emissions below recommended limits, an approved respiratory protection must be used at all times at least to (EN 149) FFP 2S level of protection.

PROTECTIVE GLOVES: Use impervious gloves.

EYE PROTECTION: Wear approved safety goggles.

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: White crystals.

pH-VALUE, DILUTED SOLUTION: | Concentration % M: |
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<tr>
<td>3.3</td>
<td>(10% aqueous solution)</td>
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SOLUBILITY VALUE (g/100g H2O 20°C): 11.3

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.
MATERIALS TO AVOID: Cyanides, sulphides and carbonates.
HAZARDOUS DECOMP. PRODUCTS: Thermal decomposition may release toxic and corrosive oxides of sulphur if heated above 600°C.

11. TOXICOLOGICAL INFORMATION:

TOXICOLOGICAL INFORMATION: Low order of acute toxicity. LD 50 - 30g/oral (human)
HEALTH HAZARDS, GENERAL: May cause irritation to eyes, skin, and mucous membranes.
INGESTION: Ingestion will cause gastric irritation and vomiting.
SKIN: Astringent property may cause tightening of the skin.
EYES: May cause irritation to eyes.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: No specific data or information available regarding environmental impact. Discharge to aquatic environments should be avoided as it may lead to localised adverse effects. (due to pH shift of solution).

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Via authorised/licenced waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

COMMENTS: This product does not require classification, however the following is suggested for supply - Irritating to eyes.
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.:  013

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 JML's 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.