

**SAFETY DATA SHEET****K-NUTE**Revision 1
Revision date 9-May-2008**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY**

Product name K-NUTE

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2 HAZARDS IDENTIFICATION.

Main hazards Causes burns.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.**Hazardous ingredients**

	Conc.	CAS	EINECS	Symbols/Risk phrases
Manganese Nitrate	35 - 45%	10377-66-9		C; R34

4. FIRST AID MEASURES

Skin contact Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.

Inhalation Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.

Ingestion Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

5. FIRE FIGHTING MEASURES

Extinguishing media Use as appropriate: carbon dioxide (CO₂), dry chemical, foam.

Fire hazards Corrosive. Burning produces irritating, toxic and obnoxious fumes.

Protective equipment Wear suitable respiratory equipment when necessary.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Wear: Self-contained breathing apparatus.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective equipment	Wear chemical protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Green.
Odour	Mild.
pH	0 - 1
Relative density	1.30 - 1.40
Water solubility	soluble in water.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Alkaline solution. Bases. Metals.
Hazardous decomposition products	Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data is available on this product.
Corrosivity	Causes burns.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available on this product.
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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
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UN 3264	Packing group III
Class 8	Hazard ID 80
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., .

IMDG

UN 3264	Packing group III
Class 8	Marine pollutant .
EmS Code	F-A S-B

IATA

UN 3264	Packing group III
Class 8	Subsidiary risk -
Packing Instruction 820 (Cargo)	Maximum quantity 60 L
Packing Instruction 818 (Passenger)	Maximum quantity 5 L

15. REGULATORY INFORMATION

Labelling The product is classified in accordance with 67/548/EEC.

Symbols C - Corrosive



Risk phrases R34 - Causes burns.

Safety phrases S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

Text of risk phrases in Section 3. R34 - Causes burns.

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Revision This document differs from the previous version in the following areas:
15 - symbols.
16 - text of risk phrases in Section 2.