



# MATERIAL SAFETY DATA SHEET

Date of issue: 10.01.05

(Supercedes all previous issues)

## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1/2

**PRODUCT NAME AND BRAND** : **MANGANESE 64**  
**SUPPLIER** : Micromix Solutions Ltd  
**ADDRESS** : Coach Gap Lane , Langar, Nottingham NG13 9HP  
**TELEPHONE+FAX** : 01949 861060 01949 861061  
**EMERGENCY CONTACT Nos** : Daytime 01949-861060 Other times 0115-9893138

## 2 COMPOSITION - INFORMATION ON INGREDIENTS

A solution of Manganese/Copper Ethylenediaminetetraacetate CAS No 15373-84-5/14025-15-1

## 3 HAZARDS IDENTIFICATION

Material not considered as hazardous for use under current legislation.

## 4 FIRST AID MEASURES

**EYES** : Hold open and irrigate with copious amounts of water for 10 minutes minimum.  
**SKIN** : Wash immediately with soap and rinse with copious amounts of water.  
**INHALATION** : No inhalation hazard  
**INGESTION** : Low toxicity by ingestion. May be harmful if ingested in quantity. Drink water to dilute.

## 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA** : Carbon Dioxide, Dry Chemical Powder, Foam, or Water  
**SPECIAL FIRE FIGHTING PROCEDURES** : Wear self contained breathing apparatus and protective clothing.  
: Avoid contact with eyes and skin.  
**HAZARD ON DECOMPOSITION** : None known

## 6 ACCIDENTAL RELEASE MEASURES

**PRECAUTIONS** : Wear self contained breathing apparatus and full overall protective clothing.  
: Avoid contact with skin and eyes.  
**SPILLAGE** : Evacuate area. Absorb and contain spillage with sand or earth. Place waste in sealed containers. Contact Local Authority for controlled waste disposal.  
: Notify Water Authority if large spillage enters drains or sewers.

## 7 HANDLING AND STORAGE

**USAGE PRECAUTIONS** : Wear full overall protective clothing, PVC or rubber Gloves and Boots.  
: If exposed to high vapour concentration in a confined area, wear self contained breathing apparatus. In well ventilated areas, wear fume mask.  
**STORAGE PRECAUTIONS** : Keep sealed in original containers.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ENGINEERING CONTROLS** : Apply COSHH assessment according to circumstance.  
**EXPOSURE LIMITS** : Not known  
**PROTECTIVE EQUIPMENT** : Wear full protective overall clothing.  
**HANDS AND FEET** : Wear PVC or rubber gloves and Boots  
**EYES AND FACE** : Wear Face shield of goggles.  
**RESPIRATION** : None required under normal usage condtions

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Blue Solution                      Odour :Slight                      Specific Gravity @ 25 °C : 1.210 - 1.249  
pH ;7.0 - 7.5    Boiling Point: 100 °C                      Flash point ; Not flammable  
Auto flammability ; Not known                      Solubility in water ; Disperses                      Freezing point : < 0 °C

## 10 STABILITY AND REACTIVITY

**STABILITY** : Stable in normal ambient conditions.  
**MATERIALS TO AVOID** : None known  
**HAZARDOUS DECOMPOSITION** : None known

## 11 TOXICOLOGICAL INFORMATION

2/2

SKIN TOXICITY : No significant effects  
EYE TOXICITY : Slight irritant  
INGESTION TOXICITY : No significant effects  
INHALATION TOXICITY : No significant effects  
LONG TERM EXPOSURE : Unknown

## 12 ECOLOGICAL INFORMATION

DEGRADABILITY : Not known  
AQUATIC TOXICITY : Not known

## 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS : Large quantities require controlled waste disposal.  
PACKAGING : Do not re-use packaging for any other purpose.  
Rinse and incinerate used packaging or use controlled waste control.

## 14 TRANSPORT INFORMATION

TRANSPORT MATERIAL IS NOT CLASSIFIED AS HAZARDOUS OR DANGEROUS FOR TRANSPORT  
ACCORDING TO CURRENT INTERNATIONAL REGULATIONS

LAND-ROAD-RAIL	(RID/ADR):	UN No.	
SEA	(IMO/IMG):		
AIR	(ICAO/IATA):	Item No.	
			Hazard No.
			Hazchem Code:
			Packaging Group:
			Tremcard No.
			Marine:

## 15 REGULATORY INFORMATION

LABELLING EEC REGULATIONS: NONE. MATERIAL IS NOT CLASSIFIED

## 16 OTHER INFORMATION

### VALIDITY

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied.

It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

SUPPLIER :Micromix Solutions Ltd  
ADDRESS :Coach Gap Lane , Langar, Nottingham NG13 9HP  
TELEPHONE+FAX :01949 861060 01949 861061  
EMERGENCY CONTACT Nos :Daytime 01949-861060 Other times 0115-9893138