

NEW MANGANESE SOLUTION

Page: 1

Revision No: 2

Compilation date: 12/05/2011

Revision date: 20/01/2014

Sent to: De Sangosse Ltd

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: NEW MANGANESE SOLUTION

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Micronutrient Seed-Treatment

1.3. Details of the supplier of the safety data sheet

Company name:De Sangosse LtdHillside MillQuarry LaneSwaffham BulbeckCambridgeCB25 0LUUnited KingdomTel:+44 (0) 1223 811215Fax:+44 (0) 1223 810020Email:msds@desangosse.co.uk

1.4. Emergency telephone number

Emergency tel: Outside Office Hours: 01638 577581 or 01485 544230

Section 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification under CHIP:	Xn: R22; C: R34; Xn: R48/20; -: R52/53	
Classification under CLP:	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Corr. 1C: H314; STOT RE 2: H373	
Most important adverse effects:	Harmful if swallowed. Causes burns. Harmful: danger of serious damage to health by	
	prolonged exposure through inhalation. Harmful to aquatic organisms, may cause long-	
	term adverse effects in the aquatic environment.	

2.2. Label elements

Label elements under CLP:	
Hazard statements:	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H373: May cause damage to organs [brain / central nervous system] through prolonged
	or repeated exposure [inhalation (vapour)].
	H412: Harmful to aquatic life with long lasting effects.
Signal words:	Danger

NEW MANGANESE SOLUTION

Page: 2

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314: Get medical if you feel unwell.

P321: Specific treatment (see on this label).

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases:	R22: Harmful if swallowed.		
	R34: Causes burns.		
	R48/20: Harmful: danger of serious damage to health by prolonged exposure through		
	inhalation.		
	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the		
	aquatic environment.		
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek		
	medical advice.		
	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).		

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

NEW MANGANESE SOLUTION

Page: 3

MANGANESE DINITRATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
233-828-8	10377-66-9	Xn: R22; C: R34; Xi: R41; Xn:	Acute Tox. 4: H302; Skin Corr. 1C:	30-50%
		R48/20; -: R52/53	H314; Eye Dam. 1: H318; STOT RE 2:	
			H373; Aquatic Chronic 3: H412; Ox.	
			Sol. 2: H272; -: EUH071	

Section 4: First aid measures

4.1. Description of first aid measures			
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.		
	Drench the affected skin with running water for 10 minutes or longer if substance is still		
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.		
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist		
	examination.		
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water		
	to drink immediately. Consult a doctor. If unconscious, check for breathing and apply		
	artificial respiration if necessary.		
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If		
	unconscious and breathing is OK, place in the recovery position. Consult a doctor.		
4.2. Most important symptoms and effects, both acute and delayed			
Skin contact:	There may be irritation and redness at the site of contact. Blistering may occur. Severe		
	burns may occur. Progressive ulceration will occur if treatment is not immediate.		
	Irritation or pain may occur at the site of contact.		
Eye contact:	There may be irritation and redness. The eyes may water profusely. There may be		
	severe pain. Corneal burns may occur. May cause permanent damage.		
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach		
	pain may occur. There may be vomiting. Corrosive burns may appear around the lips.		
	Blood may be vomited.		
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. There may be		
	shortness of breath with a burning sensation in the throat.		
4.3. Indication of any immediate medical attention and special treatment needed			

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. Corrosive.

NEW MANGANESE SOLUTION

5.3. Advice for fire-fighters Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. 6.3. Methods and material for containment and cleaning up Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Avoid all incompatible materials in clean-up procedure - see section 10 of SDS. 6.4. Reference to other sections Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Avoid incompatible materials and conditions - see section 10 of SDS. Suitable packaging: Must only be kept in original packaging. Storage quantity limits: Refer to COMAH 7.3. Specific end use(s) Section 8: Exposure controls/personal protection 8.1. Control parameters Workplace exposure limits: No data available. 8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

NEW MANGANESE SOLUTION

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be		
	impermeable to prevent the escape of liquids. Ensure all engineering measures		
	mentioned in section 7 of SDS are in place.		
Respiratory protection:	Respiratory protection not required.		
Hand protection:	Gloves (acid resistant).		
Eye protection:	Ensure eye bath is to hand. Tightly fitting safety goggles.		
Skin protection:	Impermeable protective clothing.		

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid	
Colour:	Red	
Odour:	Barely perceptible odour	
Evaporation rate:	Negligible	
Oxidising:	Non-oxidising (by EC criteria)	
Solubility in water:	Miscible in all proportions	
Viscosity:	Non-viscous	
Boiling point/range°C:	~ 100 Melting point/range°C:	No data
Flammability limits %: lower:	No data upper:	No data
Flash point°C:	>93 Part.coeff. n-octanol/water:	No data
Autoflammability°C:	No data Vapour pressure:	No data
Relative density:	1.270 - 1.330 pH :	< 2.0
VOC g/l:	No data	

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames.

10.5. Incompatible materials

Materials to avoid: Bases. Metals. Reducing agents. Organic materials.

NEW MANGANESE SOLUTION

Page: 6

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact. There may be initiation and redness at the site of contact. Distering may occur. Severe	There may be irritation and redness at the site of contact. Blistering may occur. Severe		
burns may occur. Progressive ulceration will occur if treatment is not immediate.			
Irritation or pain may occur at the site of contact.			
Eye contact: There may be irritation and redness. The eyes may water profusely. There may be			
severe pain. Corneal burns may occur. May cause permanent damage.			
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach			
pain may occur. There may be vomiting. Corrosive burns may appear around the lips.			
Blood may be vomited.			
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be			
shortness of breath with a burning sensation in the throat.			

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms. Harmful to soil organisms.

NEW MANGANESE SOLUTION

Page: 7

Section 13: Disposal considerations 13.1. Waste treatment methods **Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Recovery operations: Land treatment resulting in benefit to agriculture or ecological improvement Waste code number: -Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. **Section 14: Transport information** 14.1. UN number UN number: UN3264 14.2. UN proper shipping name Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (MANGANESE NITRATE; NITRIC ACID.) 14.3. Transport hazard class(es) Transport class: 8 14.4. Packing group Packing group: III 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Section 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Specific regulations: Not applicable. 15.2. Chemical Safety Assessment Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier. **Section 16: Other information** Other information Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH071: Corrosive to the respiratory tract.

NEW MANGANESE SOLUTION

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H373: May cause damage to organs <or state all organs affected, if known> through

prolonged or repeated exposure <state route of exposure if it is conclusively proven that

no other routes of exposure cause the hazard>.

H412: Harmful to aquatic life with long lasting effects.

R22: Harmful if swallowed.

R34: Causes burns.

R41: Risk of serious damage to eyes.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.