

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: BVR Manganese Carbonate 500 SC
Chemical Name: Magnesium Hydroxide
Formula: MgCO₃
Approved Use: Micro Nutrient
Supplier: Barclay Chemicals Manufacturing Ltd.,
 Damastown Way
 Damastown Industrial Park
 Mulhuddart
 Dublin 15
Telephone No: 01-8112900
Fax No: 01-8224678
Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)
00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Magnesium as Carbonate
2.	Non ionic surfactant
3.	Sulphite lignin
4.	Ether phosphate (free acid)
5.	Mono ethylene glycol

No.	CAS No.	R Phrases	Concentration	Classification
1.	0598-62-9	20,22	40-60%	Not classified
2.	---	22;38;41	1-10%	---
3.	8061-51-6	Non hazardous	1-10%	---
4.	---	38;41	1-10%	---
5.	0057-55-6	Non hazardous	20-50%	---

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required,
 E = Explosive,
 O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N =
 Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H
 = skin absorption

3. HAZARDS IDENTIFICATION

Human

May be irritating to skin and eyes

Environment

May cause long term adverse effects in the aquatic environment. May be harmful to the aquatic environment.

4. FIRST-AID MEASURES

General:	In cases of serious personal contamination always seek medical help immediately
Inhalation:	Remove to fresh air. Seek medical attention if recovery is not rapid
Skin Contact:	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Eye Contact:	Irrigate with clean water for at least 15 minutes. Seek medical attention if any discomfort.
Ingestion:	Drink plenty of water. DO NOT INDUCE VOMITING. If patient vomits turn into the recovery position. Obtain medical attention.
Medical Information:	For specialist advice doctors should contact the nearest Poisons Information Centre .

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing media appropriate to the surrounding fire conditions
Unsuitable Extinguishing Media:	None known.
Special Exposure Hazards:	If involved in a fire harmful fumes may be evolved
Protective Equipment:	Protective clothing, gloves and self contained breathing apparatus should be worn.
Special procedures:	Avoid allowing fire fighting water to enter the environment

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes and clothing. Wear appropriate gloves, safety goggles and protective clothing.
Environmental Precautions:	Do not discharge into drains or rivers and prevent contamination of soil, drains and surface waters.
Methods for Cleaning Up:	Absorb the product onto inert porous material and place in appropriate closable container. Dispose of waste by an authorised disposal contractor. Refer to section 13 of this document

7. HANDLING AND STORAGE

Handling:	Handle and use in accordance with good occupational hygiene and safety practise. Do not eat, drink or smoke at the workplace. Wear suitable protective clothing.
Storage:	Keep away from food, drink and animal foodstuffs. Product must only be kept in the supplier's packaging, which must be kept tightly closed. Store in a cool, dry, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions:	Wear suitable protective gloves and face protection when handling. When using do not eat, drink or smoke. Wash splashes from skin or eyes immediately Do not breathe spray. use a suitable face visor, gloves, oeralls and closed footwear. Keep away from animal feedstuffs. Wash hands before meals and immediately after work Keep out of reach of children
Protective Clothing:	<i>Respiratory Protection:</i> If a spray mist is to be generated wear a suitable protective clothing. <i>Eye Protection:</i> Wear suitable face visor <i>Hand Protection:</i> Protective gloves should be worn. <i>Skin Protection:</i> Suitable overalls should be worn with closed footwear.
Occupational Exposure Limits:	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown viscous liquid
Odour:	Slight
pH:	8 (1% solution)
Boiling Point/Boiling Range:	100°C
Melting Point/Melting Range:	-5°C
Flash Point:	Non applicable
Flammability:	Non applicable
Auto flammability:	Non applicable
Explosive Properties:	Non applicable
Oxidizing Properties:	No applicable
Vapour Pressure:	Minimal
Relative Density:	1.79
Solubility (water):	Miscible

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Mist, fume or vapour generation
Materials to Avoid:	Acids and oxidisers
Hazardous Decomposition Products:	Carbon dioxide when in contact with acids
Thermal Stability:	Stable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD ₅₀ oral Rat : > 3000mg/kg
Skin contact:	May cause skin irritation. Not absorbed through skin
Eye contact:	May cause eye irritation
Ingestion:	Low oral toxicity. Less than 10% absorbed by gastronomical tract.
Main hazards of chronic exposure:	Chronic manganese poisoning can result from excessive inhalation and ingestion exposure and involves impairment of the central nervous system. Early symptoms include sluggishness, sleepiness and weakness in the legs. Advanced cases have shown fixed facial expression, emotional disturbances, spastic gait and falling. Illness closely resembles Parkinson's disease. Kidney effects, blood changes and manganese psychosis also may occur as a result of chronic exposure. Chronic inhalation exposure can cause lung damage

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Expected to be of low toxicity to the aquatic environment
Degradability:	Insoluble in water
Further information:	May present a minimal hazard to aquatic life. Emergency services should be advised if large spillages occur.

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Dispose of by incineration or landfill in at an authorised site in accordance with local regulations.
Containers:	Contaminated packaging material should be treated as the product and disposed of at an authorised site in accordance with local regulations.



14. TRANSPORT INFORMATION

Special Transport Precautions:	None
Road/Rail Classification:	No restrictions
IMDG Classification:	No restrictions
Air Classification:	No restrictions

15. REGULATORY INFORMATION

Classification: Non Hazardous

S-Phrases

- S2 Keep out of the reach of children
 - S7 Keep container tightly closed
 - S23 Do not breathe spray
 - S37/39 Wear suitable gloves and eye/face protection
 - S49 Keep only in the original container
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16. OTHER INFORMATION

Revision 0 Revision Date; 10/03/2009

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 93/112/EEC.
