

MATERIAL SAFETY DATA SHEET**Manganese Dioxide**

Print Date: February 2, 2005

1. / Identification of substances / preparation and company / undertaking**Trade Name:** MAG X 120**Company:** **Magna Filter Media**
P.O. Box 2525
Santa Fe Springs, CA 90670
Phone No.: 800-218-6771
Fax No.: 800-218-4661**2. / Composition / Information on Ingredients**Chemical Identification:Manganese Dioxide (Mn O₂)**3. / Hazard Identification**Identification of hazards:**Prolonged inhalation of substantial quantities of dust may cause Manganese poisoning****Prolonged ingestion of substantial quantities of dust particles may cause Manganese poisoning****Contact with the eyes / mucous membranes may cause temporary irritation****Prolonged exposure to the skin may cause sensitivity and could lead to contact dermatitis****4. / First Aid Measures**After Skin Contact:

Remove particles and flush with water.

After Eye Contact:

Flush eye with water and remove all particles. Consult a physician if problems persist.

After Ingestion:

Seek medical advice.

After Inhalation:

Remove subject into fresh air and seek medical advice.

5. / Fire Fighting MeasuresSuitable Extinguishing Media:

Non-Combustible

Fire Fighting Procedure:

Wear Self Contained Breathing Apparatus and full protection

6. / Accidental Release Measures

<u>Personal Precautions:</u>	Non-Hazardous
<u>Environmental Precautions:</u>	Non-Hazardous
<u>Methods for cleaning up:</u>	Avoid dry sweeping. Use water spraying or ventilated vacuum system.

7. / Handling and Storage**7.1 Handling**

Precautions for handling: No special instructions.

Measures to protect against fire / explosion:

Manganese is an oxidizing agent and so should not be stored with reducing agents.

7.2 Storage

Design for storage rooms and vessels: **Store in a dry place. Keep away from reducing agents.**

8. / Exposure controls and personal protection.

Ingredients with OELs:

Manganese and Compounds: 5mg / m³, 8hr TWA

8.1 Personal Protection

Respiratory Protection: Not required for normal operation. Recommended for high volume applications.

Hand Protection: Protective gloves recommended.

Body Protection: Wearing of overalls is recommended
Eye protection recommended

Hygiene Measures: High standards of personal hygiene must be encouraged

9. / Physical Properties and Chemical Properties

<u>Appearance:</u>	Granular solid
<u>Color:</u>	Dark Brown
<u>Odor:</u>	None
<u>Specific Gravity:</u>	3.5 - 4.0
<u>Bulk Density:</u>	126 lbs / cu ft (2000 kg/m ³)

10./ Stability and Reactivity

Material is stable under normal conditions.

Conditions to avoid: N/A

Materials to Avoid: **Chlorine gas is evolved on contact with Hydrochloric Acid. Oxygen is evolved on heating above 500 degrees C.**

11. / Toxicological Information

This material is an irritant to the eyes.

11.1 Toxicological Tests:

Acute toxicity: N/A

Additional Information: N/A

11.2 Experiences:

Relevant Observations: None

12. / Ecological Information

12.1 Information on elimination: None

12.2 Behaviour in environment:

Mobility and Bio-accumulative potential: None

12.3 Eco-toxicological Effects:

Aquatic toxicity: N/A

13. / Disposal Considerations

Split or surplus Manganese Dioxide may be disposed of by an approved solid waste method.

13.1 Preparation Recommendation: The material supplied is not considered to be hazardous.

14. / Transportation Information

(1) Road / Rail:	ADR / RD	(2) Inland Sea:	AND / ADNR
Comment:	Not Dangerous	Comment:	Not Dangerous
(3) Air Transport:	ICAO / IATA		
Comment:	Not Dangerous		

15. / Regulatory Information

Labeling: Not classified as hazardous.

16. / Other Information

Data Sheet issued by: Magna Filter Media

Person(s) responsible: Ali Salami

17. / National Legislation

- o HSE Guidance Note EH40/02
- o COSHH Regulations 1999
- o Environmental Protection Act 1990
- o Chemicals (Hazard Information and Packaging for Supply) Regulations 1993

This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations. All information provided herein is based on our present knowledge and experience and describes our product with regard to their safety requirements. It is not considered as assurance of properties or description of quality.