# MANGANESE SULFATE CAS # 10034965

A Special Carcinogen E Dermal Hazard I Neurotoxin

B Human Terato\Repro Haz F Corrosive J Suspect Carcinogen

C Highly Toxic G Eye Damage K Suspect Terato\Repro Haz

D Inhalation Hazard H STEL L Sensitizers

HAZARD INDEX . . . . . . . . I . . .

NFPA HAZARD CODES (H,F,R,O) 1 0 0

NEUROTOXIC - RISK INDEX 4.0

INHALATION RISK INDEX <1 - LC50

ROUTE OF EXPOSURE

skin Contact: May cause skin irritation.

skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be

irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Lungs. Nerves.

SIGNS AND SYMPTOMS OF EXPOSURE

Men exposed to manganese dusts showed a decrease in fertility.

Chronic manganese poisoning primarily involves the central

nervous system. Early symptoms include languor, sleepiness and

weakness in the legs. A stolid mask-like appearance of the face,

emotional disturbances such as uncontrollable laughter and a

spastic gait with tendency to fall in walking are findings in

more advanced cases. High incidence of pneumonia has been found

in workers exposed to the dust or fume of some manganese

compounds.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

SEGREGATION: SHELF # 2

STORAGE GROUP(S):

g - Non-Reactive/Non-Hazardous

WASTE CHARACTERISTIC HAZARD:

FIRE EXTINGUISHER: Water spray. Carbon dioxide, dry chemical powder, or

appropriate foam.

TOXIC EMISSIONS WHEN BURNED: Sulfur oxides

REACTIVE PROPERTIES

HANDLING: Do not breathe dust. Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure. STORAGE: Keep tightly closed\. SPECIAL

REQUIREMENTS Hygroscopic.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: Xn N

Indication of Danger: Harmful. Dangerous for the environment.

R: 48/20/22 51/53

Risk Statements: Harmful: danger of serious damage to health by

prolonged exposure through inhalation and if swallowed. Toxic to

aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

S: 22 61

Safety Statements: Do not breathe dust. Avoid release to the

environment. Refer to special instructions/safety data sheets.

Immediately Dangerous to Life and Health 500 mg/m3

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit .615 mg/m3

DOE Short Term Exposure Limit 9.23 mg/m3

DOE Ceiling Limit 15.4 mg/m3

Immediately Dangerous to Life and Health 75 mg/m3

The information presented in the OPMSDS is intended as a synopsis of relative hazard characteristics for this chemical, for application within the UMass-Boston Chem/XL Laboratory Program. This information is derived from a wide range of sources documented in that program. While these sources are considered credible, the user is cautioned that the university cannot guarantee the accuracy nor accept responsibility for damages which may arise from errors, omissions, or the use of this information in any context other than intended. The user is strongly encouraged to seek additional information whenever feasible.