

CITY CHEMICAL CORP -- MANGANESE SULFATE, MN104S1 -- 6810-00-926-9136

=====
Product Identification
=====

Product ID:MANGANESE SULFATE, MN104S1

MSDS Date:01/16/1996

FSC:6810

NIIN:00-926-9136

MSDS Number: CGZLF

=== Responsible Party ===

Company Name:CITY CHEMICAL CORP

Address:100 HOBOKEN AVE

City:JERSEY CITY

State:NJ

ZIP:07310

Country:US

Info Phone Num:800-248-2436

Emergency Phone Num:800-424-9300 (

CHEMTREC)

CAGE:83628

=== Contractor Identification ===

Company Name:CITY CHEMICAL CORPORATION

Address:100 HOBOKEN AVE

City:JERSEY CITY

State:NJ

ZIP:07310

Country:US

Phone:201-653-6900/800-248-2436

CAGE:83628

=====
Composition/Information on Ingredients
=====

Ingred Name:MANGANESE, MONOSULFATE, MONOHYDRATE; (MANGANOUS SULFATE)

CAS:10034-96-5

RTECS #:OP0893500

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

=====
Hazards Identification
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: HARMFUL IF SWALLOWED,
INHALED/ABSORBED THRU SKIN. CAUSES EYE & SKIN IRRIT. MATL IS
IRRITATING TO MUC MEMB & UPPER RESP TRACT. CHRONIC: LAB EXPERIMENTS
HAVE SHOWN MUTAGENIC EFTS. TARGET ORGANS: CNS, LUNGS. MEN EXPOSED
TO MANGANESE DUSTS SHOWED DECREASE IN FERTILITY. CHRONIC MANGANES

E
POISONING (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: PRIMARILY INVOLVED CNS. EARLY SYMPS
INCL LANGUOR, SLEEPINESS & WEAK IN LEGS. STOLID MASK-LIKE APPEAR OF
FACE, EMOTIONAL DISTURB SUCH AS UNCONTROLLABLE LAUGHTER & SPASTIC
GAIT W/TENDENCY TO FALL IN WALKING ARE FINDINGS IN MORE ADVANCED
CASES. HIGH INCIDENCE OF PNEUM HAS BEEN FOUND IN WORKERS EXPOSED
(SUP DAT)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MA
NUFACTURER.

===== First Aid Measures =====

First Aid:EYES/SKIN: IMMED FLUSH W/COPIOUS AMOUNTS OF WATER FOR AT
LEAST 15 MIN WHILE REMOVING CONTAMINATED CLITHING & SHOES. ASSURE
ADEQUATE FLUSHING OF EYES BY SEPARATING EYELIDS W/FINGERS. INHAL:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESP. IF
BREATHING IS DIFFICULT, GIVE OXYGEN. INGEST: WASH OUT MOUTH
PROVIDED PERSON IS CONSCIOUS. CALL MD. WASH CONTAMINATED CLOTHING
BEF
ORE REUSE.

===== Fire Fighting Measures =====

Extinguishing Media:NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA
APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR NIOSH APPROVED SCBA, RUBBER BOOTS AND
HEAVY RUBBER

GLOVES. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====
===== Handling and Storage =====

Handling and Storage Precautions:DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY CLOSED.

Other Precautions:IRRITANT. POSSIBLE MUTAGEN. HYGROSCOPIC. REFRIGERATE.

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOSH APPROVED RESPIRATOR.

Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGLES .

Other Protective Equipment:EMERGENCY EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA . WEAR PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

EFFECTS OF OVEREXPOSURE: TO DUST/FUME OF MANGANESE COMPOUNDS. TARGET ORGAN DATA: PATERNAL EFFECTS (SPERMATOGENESIS). WASTE DISPOSAL METHOD: SULFIDE W/SODIUM HYPOCHLORITE. NEUTRAL SOLUTION BEFORE FLUSHING DOWN DRAIN. OBSERVE ALL FEDERAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS.

=====
===== Physical/Chemical Properties =====

HCC:T6

Specific Gravity:2.950

Appearance and Odor:WHITE TO PALE-PINK POWDER

=====
===== Stability and Reactivity Data =====

Stability Indicator/Materials to

Avoid:YES

STRONG ACIDS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:SULFUR OXIDES.

=====
===== Disposal Considerations =====

Waste Disposal Methods:MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION; OR 3) OXIDIZED TO WATER-SOLUBLE STATE. PRECIPITATE MATERIAL AS SULFIDE, ADJUSTING PH OF SOLUTION TO 7 TO COMPLETE PRECIPITATION. FILTER INSOLUBLE & DISPOSE OF THEM IN HAZARDOUS WASTE SITE. DESTROY ANY EXCESS (SUPERDAT)

Disclaimer

(provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.