MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-101/10101-68-5.html for suppliers of this product.

Composition/Information on Ingredient

Cas:
10101-68-5
Code:
M

RTECS:
OP1200000
Code:
M

Name:
MANGANESE SULFATE

Other REC Limits:
5 MG/M3

OSHA PEL:
5 MG/M3
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
5 MG/M3
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
NIOSH APPROVED RESPIRATOR

Ventilation:
LOCAL EXHAUST RECOMMENDED

Protective Gloves:
LATEX

Eye Protection:
GOGGLES

Other Protective Equipment:
Equipment DISPOSABLE PROTECTIVE APPAREL.

Work Hygienic Practices:
REMOVE &WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health:
N/K

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 (RAT) 3530 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
INHALATION: PROFUSE SWEATING/DECREASED CONSCIOUSNESS/HYPOTHERMIA/TACHYCARDIA/HYPERAMYLASEMIA/HYPOTENSION/PULMONARY EDEMA/DIARRHEA/VOMITING/JAUNDICE/OLIGURIA/PROSTRATION/MARASMUS/HYPOTONIA/PHOHOBIA/ PERIPHERAL EDEMA/NAUSEA/ULCERS OF GASTROINTESTINAL TRACT/RENAL/CONVULSIONS/COMA & HEPATIC DAMAGE.

Explanation Of Carcinogenicity:
NONE

Signs And Symptions Of Overexposure:
INHALATION: PROFUSE SWEATING/DECREASED LEVELS OF CONSCIOUSNESS/HYPOTHERMIA/TACHYCARDIA/HYPERAMYLASEMIA/HYPOTENSION/PULMONARY EDEMA/DIARRHEA/VOMITING/JAUNDICE/OLIGURIA/PROSTRATION/DIARRHEA/MARASMUS/HYP OTONIA/PHOHOBIA/PERIPHERAL EDEMA/NAUSEA/ULCERS OF GASTROINTESTINAL TRACT/RENAL/CONVULSIONS/COMA & HEPATIC DAMAGE.

Medical Cond Aggravated By Exposure:
N/K

First Aid:
INHALATION: REMOVE PERSON TO FRESH AIR. REMOVE CONTAMINATED CLOTHING. SEEK MED ATT. INGESTION: FLUSH MOUTH OUT W/WATER. SEEK MED ATT. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH AREA W/WATER. SEEK MED A TT. EYE: FLUSH W/WATER. SEEK MED ATT.

Spill Release Procedures:
VACUUM SPILLAGE W/VACUUM CLEANER HAVING A HIGH EFFICIENCY (HEPA) FILTER/ABSORB LIQUID W/PAPER TOWELS. WIPE WORKING SURFACES TO DRYNESS, THEN WASH W/SOAP & WATER.

Neutralizing Agent:
N/R

Waste Disposal Methods:
WASTE SHOULD BE DISPOSED OF IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

Handling And Storage Precautions:
WHEN HANDLING PHARMACEUTICAL PRODUCTS AVOID ALL CONTACT & INHALATION OF DUST, FUMES, MISTS, & VAPORS ASSOCIATED W/PRODUCT.

Other Precautions:
4 N/R

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
WATER SPRAY, CO2, DRY CHEMICAL/FOAM

Fire Fighting Procedures:
USE SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:
EMITS TOXIC FUMES.

Physical/Chemical Properties

HCC:

NRC/State LIC No:
5

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/R

Melt/Freeze Pt:

M.P/F.P Text:
N/R/

Decomp Temp:

Decomp Text:
N/R

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
N/R

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/R

Solubility in Water:
N/R

Appearance and Odor:
CLEAR, COLORLESS SOLUTION, ODORLESS

Percent Volatiles by Volume:
N/R

Corrosion Rate:
N/R

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
DON'T PERMIT TO FREEZE.

Materials To Avoid:
N/R

Hazardous Decomposition Products:
N/R

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/R

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P

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