

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-131/1317-35-7.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
1317-35-7
Code:
M

RTECS:
OP0895000
Code:
M

Name:
MANGANESE OXIDE

Other REC Limits:
NONE SPECIFIED

OSHA PEL:
(C),5 MG/M3(MN)
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
5 MG MN/M3; 9293
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
AS INA NY FIRE SITUATION USE SELF CONTAINED BREATHING APPARATUS.

Ventilation:
AFTER A FIRE PROVIDE VENTILATION.

Protective Gloves:
WHEN HANDLING LEAKING BATTERIES.

Eye Protection:
SAFETY GLASSES. 3

Other Protective Equipment:
Equipment NOT APPLICABLE

Work Hygienic Practices:
NOT APPLICABLE

Supplemental Safety and Health:
N/P

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 (RAT) IS UNKNOWN

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
NOT APPLICABLE

Explanation Of Carcinogenicity:
NONE OF THE HAZARDOUS INGREDIENTS ARE LISTED AS CARCINOGENIC TO HUMANS BY IARC, NTP OR OSHA.

Signs And Symptions Of Overexposure:
METAL FUME FEVER SYMPTOMS APPERA 4 TO 12 HOURS AFTER EXPOSURE. INCLUDES FEVER AND SHAKING CHILLS WHICH GENERALLY DISAPPEAR AFTER 24 HOURS.

Medical Cond Aggravated By Exposure:
AN ACUTE EXPOSURE WILL GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

First Aid:
IF ACCIDENTALLY INGESTED, SEE PHYSICIAN PROMPTLY. IF LEAKAGE FROM CELL CONTACTS SKIN OR EYE FLUSH WITH WATER, SEE PHYSICIAN. 2

Spill Release Procedures:
AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS.

Neutralizing Agent:
NOT APPLICABLE

Waste Disposal Methods:
IN SMALL QUANTITIES BATTERIES MAY BE DISPOSED OF WITH HOUSEHOLD TRASH. DO NOT INCINERATE. DISPOSE OF LARGE QQQUAAAANTITIES IN ACCORDANCE WITH LOCAL REGULATIONS.

Handling And Storage Precautions:
STORE IN COOL PLACE, PREVENT CONDENSATION. DO NOT RECHARGE. DO NOT SHORT CIRCUIT.

Other Precautions:
INSTALL CELLS IN ACCORDANCE WITH EQUIPMENT INSTRUCTIONS. REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME. DO NOT MIX BATTERY SYSTEMS SUCH AS ZINC CARBON AND ALKALINE IN SAME EQUIPMENT. DO NOT ATTEM PT TO RECHARGE. DO NOT INCINERATE.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/R

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
NOT APPLICABLE

Fire Fighting Procedures:
FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS WHEN A LARGE NUMBER OF CELLS ARE INVOLVED.

Unusual Fire/Explosion Hazard:
CELL MAY RELEASE TOXIC FUMES WHEN BATTERY IS EXPOSED TO FIRE.

Physical/Chemical Properties

HCC:
N1

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/R

Melt/Freeze Pt:

M.P/F.P Text:
995F,535C

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
5.0

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/R

Evaporation Rate & Reference:
N/R

Solubility in Water:
0%

Appearance and Odor:
GREY

Percent Volatiles by Volume:
N/R

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
DO NOT SHORT CITCUIT. DO NOT HEAT, DISSAASSEMBLE OR RECHARGE.

Materials To Avoid:
NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:
WHEN HEATED MAY EMIT HAZARDOUS FUMES OF ZINC.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NOT APPLICABLE

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