

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-103/10377-66-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

10377-66-9

Code:

M

RTECS:

QU9780000

Code:

M

Name:

MANGANESE NITRATE

Other REC Limits:

N/K (FP N)

OSHA PEL:

N/K (FP N)

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

5 MG/CUM AS MN

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation:

LOCAL EXHAUST: PROVIDE ADEQUATE VENTILATION FOR REMOVAL OF MIST.

Protective Gloves:

NEOPRENE, VINYL OR ACID RESISTANT.

Eye Protection:

CHEM WORK GOGGLES, FACESHLD OPTIONAL FP N

Other Protective Equipment:

Equipment NEOPRENE VINYL OR ACID RESISTANT APRON, SLEEVES OR OTHER SUITABLE PROTECTIVE CLOTHING. RECOMMEND EYE WASH SAFETY SHOWER.

Work Hygienic Practices:

N/K (FP N).

Supplemental Safety and Health:

ROUTES OF ENTRY & CARC: FP N. FIRST AID: INGEST: CALL MD IMMEDIATELY (FP N). DISPOSAL METHOD: SETTLE. RMV SLUDGE & DISPOSE IN ANY ACCEPTABLE MANNER, NEUTRALIZE, DILUTE & DISCHARGE REMAINING SOLUTIONS.

Health Hazards Data

LD50/LC50 Mixture:

N/K (FP N)

Route Of Entry Inds - Inhalation:

N/P

Skin:

N/P

Ingestion:

N/P

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

(SEE SIGNS & SYMPTOMS OF OVEREXPOSURE).

Explanation Of Carcinogenicity:

CHROMIC ACID: NTP: CHROMIUM & CERTAIN CHROMIUM COMPOUNDS ARE KNOWN TO BE CARCINOGENIC. IARC: HUMAN CARCINOGEN (GP 1). (FP N).

Signs And Symptoms Of Overexposure:

DIRECT CONTACT CAUSES SEVERE BURNS OF EYES & SKIN THAT MAY OR MAY NOT BE IMMEDIATELY VISIBLE. INHALATION OF MIST MAY CAUSE IRRITATION OF MUCOUS MEMBRANES.

Medical Cond Aggravated By Exposure:

N/K (FP N). 4

First Aid:

IN CASE OF CONT OR SUSP OF CONT, PROMPT MED ATTN NEC. EYES: IMMED FLUSH W/ COOL H²O FOR 15-30 MIN. HOLD LIDS APART WHILE FLUSH TO INSURE CONTACT OF H²O W/ ALL SURF. GET PROMPT MED ATTN. SKIN: IMMED FLUSH W/ LGE AMT COOL H²O FOR AT LEAST 15-30 MIN UNTIL ACID RMV, ESP UNDER NAILS. IMMED RMV CONTAM CLTHG & SHOES & WASH BFR REUSE. GET PROMPT MED ATTN. INHAL: RMV FR EXPSR. GET PROMPT MED ATTN. (MFR) (SEE SUPP DATA)

Spill Release Procedures:

CONTAIN SPILLS OR LEAKS W/ A NON-COMBUSTIBLE ABSORBENT SUCH AS VERMICULITE, DRY SAND OR EARTH. COLLECT SPILLED MATERIAL. FLUSH AREA W/ H²O & NEUTRALIZE REMAINING TRACES W/ SODA ASH. DISPOSE OF ALL MATERIALS BY APPROPRIATE WASTE DISPOSAL METHOD.

Neutralizing Agent:

N/K (FP N).

Waste Disposal Methods:

USE METH ACCEPT TO FED, STATE & LCL AUTH FOR DSPL OF SOLN CONT FLUORIDE, CHROMATES & HEAVY MET. OAKITE DISPOZ AID 1 MAY BE USED TO RDC HEXAVALENT CR TO TRIVALENT. MAY USE OAKITE DISPOZ AID 2 TO PRECIP TRIVA LENT CR, F & HVY MET. ALLOW PRECIPITATE TO (SUPP DATA)

Handling And Storage Precautions:

AVOID CONT W/ EYES, SKIN & CLOTHING. WASH WELL W/ SOAP & H²O AFT HANDLE. AVOID BTHING MIST. STORE OUT OF DIRECT SUNLIGHT AT MOD TEMP BLW 120F (49C).

Other Precautions:

BFR OPEN RELIEVE PRESS IN DRUM BY LOOSEN CLOSE SLOW. STORE AWAY FROM COMBUST, ORGANIC OR OXIDIZ MATL. AVOID CONT W/ CL RELEASE MATL, GLASS, CERAMIC OR CONCRETE. IF CONT MADE, RINSE SURF PROMPT & THOROUGH W/ H²O. KEEP CNTNR CLOSED WHEN NOT IN USE.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

NONE

Autoignition Temp:

N/A

Autoignition Temp Text:

N/A

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

WILL NOT BURN OR SUPPORT COMBUSTION UNDER NORMAL CIRCUMSTANCES. 5

Fire Fighting Procedures:

USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). IF NECESSARY, USE WATER. AVOID SPATTERING OR SPLASHING THIS MATERIAL.

Unusual Fire/Explosion Hazard:

STRONG OXIDIZ MATERIAL. CONTACT WITH ORGANIC MATERIALS OR OXIDIZ MATERIALS MAY CAUSE VIOLENT REACTIONS.

Physical/Chemical Properties

HCC:

C1

NRC/State Lic No:

N/A 6

Net Prop WT For Ammo:

N/P

Boiling Point:**B.P. Text:**

UNKNOWN

Melt/Freeze Pt:

N/P

Decomp Temp:

N/K (FP N)

Decomp Pres:

UNKNOWN

Vapor Density:

UNKNOWN

Volatile Org Content %:

N/A

Specific Gravity:

1.142

VOC Pounds/Gallon:

N/A

Viscosity:

N/P

Evaporation Rate & Reference:

NEGLIGIBLE

Solubility in Water:

COMPLETE

Appearance and Odor:

AS RECEIVED, BURNT ORANGE LIQUID; AS USED, ORANGE SOLUTION; NO ODOR.

Percent Volatiles by Volume:

NEGLIG

Corrosion Rate:

N/K (FP N)

Health Hazards Acute And Chronic:

(SEE SIGNS & SYMPTOMS OF OVEREXPOSURE).

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Reactivity Data

Stability Indicator:

YES

N/A**Conditions To Avoid Polymerization:**

N/A

Autoignition Temp:

N/A

Autoignition Temp Text:

N/A