

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-131/1313-13-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
1313-13-9
Code:
M

RTECS:
OP0350000
Code:
M

Name:
MANGANESE DIOXIDE (AS MANGANESE)

Other REC Limits:
N/K

OSHA PEL:
C,5 MG/M3/1 FUME TWA
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
5 MG/M3 DUST/1 FUME
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
NONE SPECIFIED. NIOSH-APPROVED RESPIRATOR IF TLV IS EXCEEDED

Ventilation:
GENERAL (MECHANICAL) VENTILATION.

Protective Gloves:
SOLVENT RESISTANT GLOVES

Eye Protection:
GOGGLES OR FACE SHIELD

Other Protective Equipment:
Equipment N/R

Work Hygienic Practices:
WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING.

Supplemental Safety and Health:
MFR HAS 2 PRODUCTS MEETING NSN DESCRIPTION,AND SUPPLIED APPARENTLY INTERCHANGEABLY. ALSO SEE PRO-SEAL 899 AS THE "OTHER" PRODUCT.

Health Hazards Data

LD50LC50Mixture:
N/K

Route Of Entry Inds - Inhalation:
N/P

Skin:
N/P

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EYES/SKIN:IRRITATION;INHALATION:NOT SPECIFIED BY MANUFACTURER,BUT POSSIBLY LIGHT HEAD,NAUSEA,HEADACHE,CHEMICAL PNEUMONIA,GIDDINESS,NOSE IRRITATION;INGESTION:WEAKNESS & SLEEPINESS DUE TO MANGANESE POIS ONING.

Explanation Of Carcinogenicity:
CARBON BLACK DEFINED AS CARCINOGEN BY NIOSH WITH NO FURTHER CATEGORIZATION. 3

Signs And Symptions Of Overexposure:
SEE HEALTH HAZARDS.

Medical Cond Aggravated By Exposure:
ANY MEDICAL CONDITION AFFECTING SAME ORGANS AS THOSE AFFECTED BY OVEREXPOSURE.

First Aid:
EYES:FLUSH WITH LUKE WARM WATER FOR 15 MINUTES.IF SYMPTOMS PERSIST,SEE DOCTOR;SKIN:WASH WITH SOAP & WATER.IF SYMPTOMS PERSIST,SEE DOCTOR;INHALATION:REMOVE TO FRESH AIR.IF SYMPTOMS PERSIST,SEE DOCTOR;I NHALATION:REMOVE TO FRESH AIR.IF SYMPTOMS PERSIST,SEE DOCTOR;INGESTION:SEE DOCTOR.

Spill Release Procedures:
SCOOP INTO CONTAINERS.CLEAN UP RESIDUE WITH 1,1,1-TRICHLOROETHANE.

Neutralizing Agent:
N/K

Waste Disposal Methods:
NOT A HAZARDOUS WASTE ACCORDING TO EPA REGULATIONS. DISPOSE OF JAW FEDERAL,STATE & LOCAL REGULATIONS.

Handling And Storage Precautions:
KEEP IN CLOSED CONTAINERS IN SHELTERED AREA.

Other Precautions:
AVOID INGESTION.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
NOT FLAMMABLE

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/R

Upper Limits:
N/R 4

Extinguishing Media:
CO*2,DRY CHEMICAL,FOAM,WATER

Fire Fighting Procedures:
USE AIR SUPPLIED RESPIRATOR. USE WATER TO COOL HEAT EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:
EXCESSIVE HEAT MAY CAUSE DECOMPOSITION OF MANGANESE DIOXIDE RESULTING IN OXIDATION & POSSIBLE IGNITION OF HYDROCARBON VEHICLE.

Physical/Chemical Properties

HCC:
5

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/R

Melt /Freeze Pt:

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

Decomp Temp:

Decomp Text:
N/K

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
1.95

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/K

Solubility in Water:
NEGLIGIBLE

Appearance and Odor:
DARK GRAY PASTE,SLIGHT SULFIDE ODOR.

Percent Volatiles by Volume:
NONE

Corrosion Rate:
N/K

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
HEAT,SPARKS,OPEN FLAMES.

Materials To Avoid:
OXIDIZING AGENTS--PRODUCT CONTAINS EASILY OXIDIZABLE MATERIALS.

Hazardous Decomposition Products:
OXIDES OF CARBON AND NITROGEN,MANGANESE COMPOUNDS.

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



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

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.