

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-133/1336-93-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
1336-93-2

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
MANGANESE NAPTHENATE \*92-2\*

**Other REC Limits:**  
N/K

**OSHA PEL:**  
5 MG/CUM (MN)

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
FOR USE W/PAINTS DURING APPLICATION & UNTIL ALL VAPORS/SPRAY MISTS ARE EXHAUSTED USE A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR NIOSH/MSHA (TC-23C). IN CONFINED SPACES USE A POSITIVE PRESSURE SUPP LIED AIR RESPIRATOR (TC-19C).

**Ventilation:**  
SUFFICIENT IN VOLUME & PATTERN TO KEEP

**Protective Gloves:**  
NEOPRENE

**Eye Protection:**  
SPLASH GUARDS, SIDE SHIELDS 4

**Other Protective Equipment:**  
Equipment COVERALLS

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

**Supplemental Safety and Health:**  
BOILING RANGE: 169-374F. PERCENT VOLATILE BY WEIGHT: 41.8-99.9%

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INGESTION: GASTROINTESTINAL DISTRESS. INHALATION: NOSE/THROAT IRRITATION, EYE WATERING, HEADACHES, NAUSEA, DIZZINESS & LOSS OF COORDINATION. EYES: IRRIATION OR BURNING. SKIN: IRRITATION, DISCOMFORT & DERMATITIS.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
INGESTION: GASTROINTESTINAL DISTRESS. INHALATION: PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. EYES: IRRITATION OR BURNING. SKIN: IRRITTION, DISCOMFORT & DERMATITIS.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. SKIN: WASH W/SOAP & WATER. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
3 VENTILATE AREA. REMOVE FROM SOURCES OF IGNITION. WEAR PROTECTIVE EQUIPMENT. CONFINE & REMOVE W/INERT ABSORBENT.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DONT ALLOW MATERIAL TO CONTAMINATE GROUND WATER SYSTEMS. INCINERATE ABSORBED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL REQUIREMENTS. DONT INCINERATE IN CLOSED CONTAINERS.

**Handling And Storage Precautions:**  
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAME. CLOSE CONTAINER AFTER EACH USE. GROUND CONTAINERS WHEN POURING. DONT STORE >120F. OBSERVE LABEL PRECAUTIONS.

**Other Precautions:**  
DONT SAND, FLAME CUT, BRAZE OR WELD DRY COATING W/OUT A NIOSH/MSHA APPROVED RESPIRATOR OR APPROPRIATE VENTILATION. AVOID CONTACT W/SKIN & BREATHING OF VAPOR OR MISTS. DONT PERMIT ANYONE W/OUT PROTEC TION IN THE PAINTING AREA.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
CC

**Flash Point:**

**Flash Point Text:**  
SEE SUPP

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
0.9%

**Upper Limits:**  
13.1%

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

**Fire Fighting Procedures:**  
USE FULL PROTECTIVE EQUIP & SCBA. USE WATER FROM FOG NOZZLES TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD UP.

**Unusual Fire/Explosion Hazard:**  
WHEN HEATED >100F, EMITS FLAMMABLE VAPORS WHICH, WHEN MIXED W/AIR CAN BURN OR BE EXPLOSIVE. FINE MISTS/SPRAYS MAY BE FLAMMABLE AT TEMPS <100F.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
SEE SUPP

**Melt /Freeze Pt:**

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

**Decomp Temp:**  
N/K

**Vapor Pres:**  
N/K

**Vapor Density:**  
>AIR

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
LESS THAN ETHER

**Solubility in Water:**  
MISCIBLE

**Appearance and Odor:**  
N/K

**Percent Volatiles by Volume:**  
53-99%

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HEAT, SPARKS, OPEN FLAME, TEMPS >120F OR OTHER SOURCES OF IGNITION

**Materials To Avoid:**  
N/K

**Hazardous Decomposition Products:**  
CO, CO2, SMOKE

**Hazardous Polymerization Indicator:**  
NO

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

## 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