

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

ACGIH STEL:

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 SUPPLIED 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

LD50/LC50 Mixture:

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: IRRITATION OR BURNING. SKIN: IRRITATION, DISCOMFORT & DERMATITIS.

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms Of Overexposure:

INGESTION: GASTROINTESTINAL DISTRESS. INHALATION: PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. EYES: IRRITATION OR BURNING. SKIN: IRRITATION, 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:

DON'T ALLOW MATERIAL TO CONTAMINATE GROUND WATER SYSTEMS. INCINERATE ABSORBED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL REQUIREMENTS. DON'T INCINERATE IN CLOSED CONTAINERS.

Handling And Storage Precautions:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAME. CLOSE CONTAINER AFTER EACH USE. GROUND CONTAINERS WHEN POURING. DON'T STORE >120F. OBSERVE LABEL PRECAUTIONS.

Other Precautions:

DON'T 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. DON'T PERMIT ANYONE W/OUT PROTECTION IN THE PAINTING AREA.

Fire and Explosion Hazard Information

Flash Point Method:

CC

Flash Point:

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

SEE SUPP

Autoignition Temp:

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

N/A

Autoignition Temp Text:

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N/A

Lower Limits:

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

0.9%

Upper Limits:

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

13.1%

Extinguishing Media:

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

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:

N/K

Boiling Point:

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SEE SUPP

M.P/F.P:

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N/K

Decomp Temp:

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N/K

Vapor Pres:

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N/K

Vapor Density:

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

>AIR

Water Solubility:

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

WATER

Volatile Org Content %:

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

N/A

Spec Gravity:

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N/K

VOC Pounds/Gallon:

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

N/A

PH:

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

N/K

VOC Grams/Liter:

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

N/A

Viscosity:

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

N/P

Evaporation Rate & Reference:

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

LESS THAN ETHER

Solubility in Water:

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

MISCIBLE

Appearance and Odor:

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

N/K

Percent Volatiles by Volume:

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

53-99%

Corrosion Rate:

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

N/K

Reactivity:

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

N/A

Stability Indicator:

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

YES

Stability Condition To Avoid:

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HEAT, SPARKS, OPEN FLAME, TEMPS >120F OR OTHER SOURCES OF IGNITION

Materials To Avoid:

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N/K

Hazardous Decomposition Products:

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

CO, CO2, SMOKE

Hazardous Polymerization Indicator:

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