

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-615/6156-78-1.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

6156-78-1

Code:

M

RTECS:

AI5775000

Code:

F

Name:

ACETIC ACID, MANGANESE (2+) SALT, TETRAHYDRATE; (

Other REC Limits:

N/P

OSHA PEL:

N/P

Code:**OSHA STEL:**

N/P

Code:**ACGIH TLV:**

0.034 MG/M3; 0.005 PPM

Code:

T

ACGIH STEL:

NOT ESTABLISHED

Code:

T

Control Measures

Respiratory Protection:

IN CASE OF BRIEF EXPOSURE, USE NIOSH APPROVED RESPIRATOR.

Ventilation:

USE UNDER FUME HOOD.

Protective Gloves:

ACID RESISTANT GLOVES. 5

Eye Protection:

ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH FACESHIELD (FP N).

Other Protective Equipment:

Equipment EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). WEAR PROTECTIVE APRON.

Work Hygienic Practices:

N/P

Supplemental Safety and Health:

TRADE NAME/PART NUMBER: MANGANESE IN 5% NITRIC ACID.

Health Hazards Data

LD50/LC50 Mixture:

N/P

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

CORROSIVE. HARMFUL BY INGESTION. IRRITATING TO THE EYES AND SKIN UPON CONTACT.

Explanation Of Carcinogenicity:

N/P

Signs And Symptoms Of Overexposure:

SEE HEALTH HAZARDS.

Medical Cond Aggravated By Exposure:

N/P

First Aid:

GENERAL: REMOVE CONTAMINATED CLOTHING, WASH THOROUGHLY BEFORE REUSE. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. SKIN: REMOVE CONTAMINATED CLOTHING AND FLUSH WITH WATER THOROUGHLY. INHALATION: MOVE TO FRESH AIR, CONSULT DOCTOR IF SYMPTOMS PERSIST. INGESTION: GET IMMEDIATE MEDICAL HELP. IF THE PATIENT IS CONSCIOUS, GIVE LARGE QUANTITIES OF WATER.

Spill Release Procedures:

VENTILATE AREA. WEAR PROTECTIVE EQUIPMENT. DO NOT ALLOW TO ENTER DRAINAGE SYSTEMS OR WATERWAYS. DILUTE SPILL WITH WATER AND NEUTRALIZE WITH SODA ASH, LIMESTONE, ETC. WIPE UP AND PUT INTO A SEALED CONTAINER FOR PROPER DISPOSAL. WASH SPILL SITE WITH WATER AFTER MATERIAL PICK UP IS COMPLETE. WEAR CHEMICAL RESISTANT GLASSES, GLOVES AND CLOTHING.

Neutralizing Agent:

SODA ASH, LIMESTONE, ETC.

Waste Disposal Methods:

CONTACT LOCAL HAZARDOUS OR CHEMICAL WASTE DISPOSAL AGENCY FOR REGULATIONS. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS (FP N). 4

Handling And Storage Precautions:

ENSURE GOOD VENTILATION/EXHAUSTION AT WORK PLACE. HAVE AN IMMEDIATE AVAILABILITY OF AN EYE WASH IN CASE OF EMERGENCY. STORE AT ROOM TEMPERATURE. KEEP THE CONTAINER TIGHTLY CLOSED.

Other Precautions:

N/P

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

N/A

Flash Point Text:

N/A

Autoignition Temp:

N/A

Autoignition Temp Text:

N/A

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:

WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard:

OXIDES OF NITROGEN CAN BE RELEASED IN CASE OF FIRE. NOT EXPLOSIVE. NOT SELF-IGNITING.

Physical/Chemical Properties

HCC:**NRC/State IC No:****Net Prop WT For Ammo:**

N/P

B.P. Text:

N/A

Melt/Freeze Pt:

N/A

M.P./F.P. Text:

N/A

Decomp Temp:

N/A

Decomp Text:

N/A

Vapor Pres:

N/A

Vapor Density:

N/A

Volatile Org Content %:

N/A

Spec Gravity:

APPROXIMATELY 1.0

APPROXIMATELY 1.0

VOC Pounds/Gallon:

N/A

PH:

1 TO 2

VOC Grams/Liter:

N/A

Viscosity:

N/P

Evaporation Rate & Reference:

N/A

Solubility in Water:

MISCIBLE

Appearance and Odor:

APPEARANCE LIQUID WITH ACRID ODOR. 6

Percent Volatiles by Volume:

N/P

Corrosion Rate:

N/A

Reactivity Data:

STABLE UNDER NORMAL STORAGE AND USE.

Materials To Avoid:

REACTS WITH STRONG ALKALI, VARIOUS METALS, AND ORGANIC SUBSTANCES.

Hazardous Decomposition Products:

TOXIC FUMES UNDER CONDITIONS OF FIRE.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/P

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:

N/P

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE "ALL INCLUSIVE" AND IS

NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT. THE INFORMATION IN THIS DOCUMENT IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE AND

IS NOT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. LOOKCHEM SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM

THE USE OF THE PRODUCT OR FROM RELIANCE UPON THE INFORMATION CONTAINED HEREIN. THE INFORMATION IS PROVIDED "AS IS" AND

WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.

THE INFORMATION IS PROVIDED "AS IS" AND WITHOUT WARRANTY. THE INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT A SUBSTITUTE FOR PROFESSIONAL JUDGMENT.</p