

# 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

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; 005 PPM  
**Code:**  
T

**ACGIHSTEL:**  
NOT ESTABLISHED  
**Code:**  
T

## Control Measures

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.

**LD50LC50Mixture:**

<b>Route Of Entry Inds - Inhalation:</b> YES
<b>Skin:</b> YES
<b>Ingestion:</b> YES
<b>Carcinogenicity Inds - NTP:</b> NO
<b>IARC:</b> NO
<b>OSHA:</b> NO
<b>Health Hazards Acute And Chronic:</b> CORROSIVE. HARMFUL BY INGESTION. IRRITATING TO THE EYES AND SKIN UPON CONTACT.
<b>Explanation Of Carcinogenicity:</b> N/P
<b>Signs And Symptoms Of Overexposure:</b> SEE HEALTH HAZARDS.
<b>Medical Cond Aggravated By Exposure:</b> N/P
<b>First Aid:</b> 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.
<b>Spill Release Procedures:</b> 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.
<b>Neutralizing Agent:</b> SODA ASH, LIMESTONE, ETC.
<b>Waste Disposal Methods:</b> CONTACT LOCAL HAZARDOUS OR CHEMICAL WASTE DISPOSAL AGENCY FOR REGULATIONS. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS (FP N). 4
<b>Handling And Storage Precautions:</b> 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.
<b>Other Precautions:</b> N/P
<b>Fire and Explosion Hazard Information</b>

Flash Point Method:  
N/D

**Flash Point:**

**Flash Point Text:**  
N/A

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**

**Upper Limits:**

**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.

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**Physical/Chemical Properties**

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**  
=100.C, 212.F

**B.P. Text:**

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
N/P

**Vapor Density:**  
N/P

**Volatile Org Content %:**

**Spec Gravity:**  
APPROXIMATELY 1.0

**VOC Pounds/Gallon:**

**PH:** 1 TO 2

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/P

**Solubility in Water:**  
MISCIBLE

**Appearance and Odor:**  
TRANSPARENT LIQUID WITH ACRID ODOR. 6

**Percent Volatiles by Volume:**  
N/P

**Corrosion Rate:**  
N/P

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**Reactivity Data**

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
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

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## Toxicological Information

**Information:**N/P

MSDS Tra

**Information:**N/P

Regulatory

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/A

**State Regulatory Information:** 1/1

## Other Info

**Other Information:**N/P

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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