

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-111/1113-38-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
1113-38-8  
**Code:**  
M

**RTECS:**  
RO2750000  
**Code:**  
M

**Name:**  
AMMONIUM OXALATE (8 GRAMS/LT) INFORMATION TAKEN F

**Other REC Limits:**  
NONE SPECIFIED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED RESPIRATOR OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN.

**Ventilation:**  
LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.

**Protective Gloves:**  
RUBBER GLOVES.

**Eye Protection:**  
SAFETY GLASSES.

**Other Protective Equipment:**  
Equipment PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.

**Work Hygienic Practices:**  
WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

**Supplemental Safety and Health:**  
KEY1:F3. THIS IS PART A OF A 4 PART KIT, FOR OTHER PARTS, SEE PNI B, C, AND D, SAME NSN.

## Health Hazards Data

**LD50LC50Mixture:**  
LD 50 ORAL RAT IS UNKNOWN

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: CONTACT MAY CAUSE EYE AND SKIN DAMAGE. INHALATION MAY CAUSE NAUSEA, CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION MAY AFFECT THE OCULAR NERVE. CHRONIC: INHALATION MAY CAUSE SENSITIZATION OF RESPIRATORY SYSTEM.

**Explanation Of Carcinogenicity:**  
NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

**Signs And Symptoms Of Overexposure:**  
3 EYE/SKIN: IRRITATION. INHALATION: NAUSEA, DROWSINESS. INGESTION: VISION EFFECTS.

**Medical Cond Aggravated By Exposure:**  
INDIVIDUALS WITH A HISTORY OF RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

**First Aid:**  
EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEE DOCTOR. SKIN: WASH WITH SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR IMMEDIATELY. INGESTION: GIVE TWO GLASSES OF WATER. INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.

**Spill Release Procedures:**  
REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN INERT MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER.

**Neutralizing Agent:**  
NOT APPLICABLE.

**Waste Disposal Methods:**  
CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED.

**Other Precautions:**  
AVOID EYE AND SKIN CONTACT. DO NOT BREATHE VAPORS. GROUND PROCESSING EQUIPMENT.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
TCC

**Flash Point:**

**Flash Point Text:**  
48.0F,8.9C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
UNKNOWN

**Upper Limits:**  
UNKNOWN 4

**Extinguishing Media:**  
DRY POWDER, FOAM, CARBON DIOXIDE.

**Fire Fighting Procedures:**  
WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

**Unusual Fire/Explosion Hazard:**  
COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

## Physical/Chemical Properties

**HCC:**  
F2

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
173F,79C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
UNKNOWN

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
40

**Vapor Density:**  
1.59

**Volatile Org Content %:**

**Spec Gravity:**  
0.789

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
UNKNOWN

**Evaporation Rate & Reference:**  
UNKNOWN

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
PURPLE COLOR WITH PUNGENT ODOR. (PHYSICAL DATA FOR ETHANOL ONLY)

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

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

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

**Materials To Avoid:**  
STRONG OXIDIZING AGENTS.

**Hazardous Decomposition Products:**  
CARBON MONOXIDE, CARBON DIOXIDE, INCOMPLETELY BURNED CARBON PRODUCTS.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT APPLICABLE

## 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