

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-107/107-02-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
107-02-8  
**Code:**  
T

**RTECS:**  
AS1050000  
**Code:**  
T

**Name:**  
ACROLEIN Environmental Wt: Other REC Limits: N/

**Other REC Limits:**  
N/P

**OSHA PEL:**  
N/P  
**Code:**

**OSHA STEL:**  
N/P  
**Code:**

**ACGIH TLV:**  
N/P  
**Code:**

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

## Control Measures

**Respiratory Protection:**  
USE A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IN CASE OF EMERGENCY OR NON-ROUTINE USE.

**Ventilation:**  
PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MAINTAIN CONCENTRATIONS BELOW EXPOSURE AND FLAMMABLE LIMITS.

**Protective Gloves:**  
IMPERVIOUS GLOVES.

**Eye Protection:**  
ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N). 4

**Other Protective Equipment:**  
Equipment ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER (FP N). COVERALLS, BOOTS, AND/OR OTHER RESISTANT PROTECTIVE CLOTHING. SAFETY SHOES WHEN HANDLING CYLINDERS.

**Work Hygienic Practices:**  
TO PREVENT STATIC SPARKS, ELECTRICALLY-GROUND AND BOND ALL EQUIPMENT USED WITH AND AROUND MATERIAL.

**Supplemental Safety and Health:**  
ODOR THRESHOLD: 1.8 PPM. EMERGENCY OVERVIEW: POISONOUS, FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF INHALED. CAN CAUSE EYE AND SKIN BURNS. MAY CAUSE IRRITATION TO RESPIRATORY TRACT.

## Health Hazards Data

**LD50LC50Mixture:**  
SEE TOXICOLOGICAL INFORMATION.

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: IF INHALED, SEVERE IRRITATION OF THE NOSE, THROAT AND UPPER RESPIRATORY TRACT WILL RESULT. CAN BE ABSORBED THROUGH THE SKIN. SKIN AND EYE CONTACT MAY RESULT IN BURNS. POSSIBLE DERMATITIS FROM S KIN CONTACT. INGESTION CAUSES IRRITATION AND BURNING SENSATIONS OF THE UPPER GASTROINTESTINAL TRACT. INHALATION MAY BE FATAL DUE TO SPASMS, INFLAMMATION, EDEMA, OF THE LARYNX AND BRONCHI, CHEMICAL PNE UMONITIS AND PULMONARY EDEMA. SEVERE LACHRYMATOR. SYMPTOMS INCLUDE BURNING SENSATION, COUGH

**Explanation Of Carcinogenicity:**  
N/P

**Signs And Symptions Of Overexposure:**  
HEALTH HAZARDS: CHRONIC: SUSPECTED HUMAN CARCINOGEN. EYES, LUNG AND LIVER DAMAGE. CARDIOVASCULAR PROBLEMS. POSSIBLE CANCER HAZARD. OTHER EFFECTS OF OVEREXPOSURE: NONE.

**Medical Cond Aggravated By Exposure:**  
CARDIOVASCULAR PROBLEMS.

**First Aid:**  
INHAL: IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS SPED, GIVE ARTIFICIAL RESPIRATION. EYES: IMMEDIATELY FLUSH EYES, INCLUDING UNDER EYELIDS, GENTLY BUT THOROUGHLY W/PLENTY OF RUNNING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION AS SOON AS POSSIBLE. SKIN: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF WATER. USE SOAP IF AVAILABLE. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AFTER FLUSHING HAS BEGUN. GET PROMPT MEDICAL ATTENTION. INGEST: HAVE

**Spill Release Procedures:**  
EVACUATE AND VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. COVER WITH AN ACTIVATED CARBON ABSORBENT, TAKE UP, AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. USE NON-SPARKING TOOLS. SPECIALIZED EQUIPME NT: NONE.

**Neutralizing Agent:**  
N/P

**Waste Disposal Methods:**  
RETURN CYLINDERS TO SUPPLIER WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE. FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. NON-RETURNABLE CYLINDERS MUST NOT BE REFILLED. DISPOSE OF NON-REFILLABLE CYLINDERS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
SECURE CYLINDER WHEN USING TO PROTECT FROM FALLING. USE SUITABLE HAND TRUCK TO MOVE CYLINDERS. USE SPARK-PROOF TOOL AND EXPLOSION-PROOF EQUIPMENT. USE ONLY IN A CHEMICAL FUME HOOD. AVOID EXPOSURE TO D IRECT SUNLIGHT.

**Other Precautions:**  
STORE IN WELL VENTILATED AREAS. KEEP VALVE PROTECTION CAP ON CYLINDERS WHEN NOT IN USE. STORE AWAY FROM HEAT, FLAME, AND SPARKS. KEEP AWAY FROM OXIDIZING AGENTS. REFRIGERATE AT 2-8C. 3

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/K

**Flash Point:**  
=-26.C, -14.8F

**Flash Point Text:**

**Autoignition Temp:**  
=220.C, 428.F

**Autoignition Temp Text:**

**Lower Limits:**  
2.80%

**Upper Limits:**  
31.00%

**Extinguishing Media:**  
CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. WATER MAY BE EFFECTIVE FOR COOLING CYLINDERS, BUT MAY NOT EFFECT EXTINGUISHMENT.

**Fire Fighting Procedures:**  
WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT (FP N). KEEP FIRE-EXPOSED CYLINDERS COOL WITH WATER SPRAY. MOVE CYLINDERS AWAY FROM FIRE IF THIS CAN BE DONE SAFELY .

**Unusual Fire/Explosion Hazard:**  
TOXIC CARBON MONOXIDE MAY BE GIVEN OFF DURING COMBUSTION. CYLINDER RUPTURE MAY OCCUR UNDER FIRE CONDITIONS. DO NOT EXPOSE TO HEAT OR FLAME. CAN REACT VIOLENTLY WITH OXIDIZING MATERIALS. VAPORS MAY TRA VEL A CONSIDERABLE DISTANCE TO THE SOURCE OF IGNITION AND FLASH BACK.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**  
=53.C, 127.4F

**B.P. Text:**

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
210 MM HG @ 20C

**Vapor Density:**  
1.94 AIR=1

**Volatile Org Content %:**

**Spec Gravity:**  
0.84 @ 20C (H\*20=1)

**VOC Pounds/Gallon:**

**PH:** N/P

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
SOLUBLE

**Appearance and Odor:**  
COLORLESS TO PALE YELLOW LIQUID WITH PUNGENT ODOR.

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

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
NO

**Stability Condition To Avoid:**  
SPARKS, FLAME, HEAT AND OTHER SOURCES OF IGNITION. CONTACT WITH AIR.

**Materials To Avoid:**  
OXIDIZING AGENTS, ACIDS AND BASES. REDUCING AGENTS. OXYGEN. AMINES, AMMONIA, AND ALCOHOLS. ALKALI AND ALKALINE EARTH METALS.

**Hazardous Decomposition Products:**  
TOXIC CARBON MONOXIDE.

**Hazardous Polymerization Indicator:**  
YES

**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

**Other Information:**N/P

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WARRANTY

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