

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-110/110-88-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
110-88-3  
**Code:**  
M

**RTECS:**  
YK0350000  
**Code:**  
M

**Name:**  
1,3,5-TRIOXANE

**Other REC Limits:**  
NONE RECOMMENDED

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

**OSHA STEL:**

**Code:**

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

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

## Control Measures

**Respiratory Protection:**  
USE NIOSH APPROVED CARTRIDGE OR CANNISTER RESPIRATOR IF VENTILATION IS INADEQUATE, AND WITHIN USE LIMITATIONS OF DEVICE. OTHERWISE, USE SELF-CONTAINED BREATHING APPARATUS.

**Ventilation:**  
USE LOCAL EXHAUST WHEN APPROPRIATE TO CONTROL EMPLOYEE EXPOSURE. IN MOST SITUATIONS, USE DILUTION OR GENERAL VENTILATION.

**Protective Gloves:**  
RUBBER OR NEOPRENE GLOVES.

**Eye Protection:**  
SAFETY GOGGLES.

**Other Protective Equipment:**  
Equipment NONE.

**Work Hygienic Practices:**  
WASH THOROUGHLY AFTER EACH USE.

**Supplemental Safety and Health:**  
N/P

## Health Hazards Data

**LD50LC50Mixture:**  
ORAL LD50 (RAT) IS UNKNOWN

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ESSENTIALLY NON-IRRITATING TO SKIN AND NON-SENSITIZING. CONSIDERED PRACTICALLY NON-TOXIC BY INHALATION AND INGESTION.

**Explanation Of Carcinogenicity:**  
NOT LISTED AS A CARCINOGENIC BY NTP, IARC NOR OSHA.

**Signs And Symptions Of Overexposure:**  
2 NONE SPECIFIED BY MANUFACTURER.

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**First Aid:**  
EYE: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN & SEEK MEDICAL ATTENTION. SKIN: WASH SUBSTANCE FROM SKIN WITH MILD SOAP & WATER; IF IRRITATED, SEEK MEDICAL ATTENTION. INGESTION: GIVE TWO GLAS SES OF WATER TO DILUTE, SEEK MEDICAL ATTENTION. INHLATION: REMOVE FROM CONTAMINATED AREA & SEEK MEDICAL ATTENTION.

**Spill Release Procedures:**  
AVOID SPRAKS, OPEN FLAMES, OR ANY OTHER SOURCES OF IGNITION. AVOID CONTACT WITH STRONG ACIDS OR OXIDIZING MATERIALS.

**Neutralizing Agent:**  
NOT APPLICABLE

**Waste Disposal Methods:**  
INCINERATE IN CHEMICAL INCINERATOR, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A COOL DRY PLACE. KEEP AWAY FROM SPARKS AND OPEN FLAMES.

**Other Precautions:**  
NONE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
OC

**Flash Point:**

**Flash Point Text:**  
113F,45C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
3.6%

**Upper Limits:**  
29.0% 3

**Extinguishing Media:**  
WATER SPRAY, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL POWDER.

**Fire Fighting Procedures:**  
SELF-CONTAINED BREATHING APPARATUS AND PERSONAL PROTECTIVE EQUIPMENT MAY BE NEEDED FOR LARGE FIRES.

**Unusual Fire/Explosion Hazard:**  
CONSIDERED A MODERATE FIRE RISK. BURNS WITH COLORLESS FLAME.

## Physical/Chemical Properties

**HCC:**  
F8

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

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
238F,114C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
142F,61C

**Decomp Temp:**

**Decomp Text:**  
N/A

**Vapor Pres:**  
10.0 MMHG

**Vapor Density:**  
1.0-1.2

**Volatile Org Content %:**

**Spec Gravity:**  
1.17 @65C

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
17.2 % @18C

**Appearance and Odor:**  
BLUE CRYSTALLS WITH PLESANTS ETHER-LIKE ODOR.

**Percent Volatiles by Volume:**  
100%

**Corrosion Rate:**  
N/A

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
CONTACT WITH STRONG MINERAL ACIDS OR STRONG OXIDIZING AGENTS.

**Materials To Avoid:**  
STRONG MINRAL ACIDS AND STRONG OXIDIZING AGENTS.

**Hazardous Decomposition Products:**  
CARBON MONOXIDE, FORMALDEHYDE, PARAFORMALDEHYDE, CARBON DIOXIDE.

**Hazardous Polymerization Indicator:**  
N/P

**Conditions To Avoid Polymerization:**  
CONTACT WITH LEWIS ACIDS.

## 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