

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-112/112-49-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
112-49-2  
**Code:**  
M

**RTECS:**  
XF0665000  
**Code:**  
M

**Name:**  
TRIETHYLENE GLYCOL DIMETHYL ETHER; TRIGLYME

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M

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

## Control Measures

**Respiratory Protection:**  
USE APPROVED RESPIRATOR EQUIPMENT (AIR-PURIFYING, AIR-SUPPLIED/SCBA).

**Ventilation:**  
LOCAL/GENERAL: WILL DEPEND ON THE CONDITIONS OF USE, QUANTITY OF MATERIAL & OTHER OPERATING PARAMETERS.

**Protective Gloves:**  
CHEMICAL RESISTANT/NEOPRENE

**Eye Protection:**  
SAFETY GLASSES/GOGGLES/FACE SHIELD

**Other Protective Equipment:**  
Equipment EYE WASH FOUNTAINS, SAFETY SHOWERS, CHEMICAL RESISTANT CLOTHING.

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. REMOVE/DISCARD CONTAMINATED SHOES.

**Supplemental Safety and Health:**  
FIRE & EXPLOSION CONT'D: CAN FORM HEAT SENSITIVE PEROXIDES WHICH COULD EXPLODE DURING CONCENTRATION/EVAPORATION.

## Health Hazards Data

**LD50LC50Mixture:**  
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:**  
EYES/SKIN: GI TRACT IRRITATION. MUCOUS MEMBRAN IRRITANT, CNS DEPRESSANT.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
IRRITATION, HEADACHE, NAUSEA, GI TRACT DISCOMFORT.

**Medical Cond Aggravated By Exposure:**  
INDIVIDUALS SUSCEPTIBLE TO DERMATITIS. ITS RECOMMENDED THAT WOMEN OF CHILD BEARING POTENTIAL BE PROTECTED FROM EXPOSURE.

**First Aid:**  
INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. GIVE MOUTH TO MOUTH/CPR, IF NEEDED. EYES: RINSE W/COPIOUS AMOUNTS OF WATER FOR 15 MINS. SKIN: FLUSH THOROUGHLY FOR 15 MINS. WASH W/SOAP & WATER. INGESTION: NEVER INDUCE VOMITING/GIVE ANYTHING BYMOUTH TO AN UNCONSCIOUS/CONVULSIVE PERSON. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
PROTECT FROM IGNITION. WEAR PROTECTIVE CLOTHING & USE APPROVED RESPIRATOR EQUIPMENT. ABSORB MATERIAL IN AN ABSORBENT RECOMMENDED FOR SOLVENTS & REMOVE TO A SAFE LOCATION FOR DISPOSAL.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A PROTECTED & SECURE FLAMMABLE LIQUID STORAGE ROOM. AVOID OPEN CONTAINERS & POOR VENTILATION.

**Other Precautions:**  
DON'T OPEN CONTAINER IF PEROXIDE CRYSTALS FORM IN LIQUID/AROUND CLOSURE. DON'T CONCENTRATE IF PEROXIDE CONCENTRATIONS EXCEED 0.01%/100 PPM. GROUND & BOND METAL CONTAINERS TO MINIMIZE STATIC SPARKS. 2

## Fire and Explosion Hazard Information

**Flash Point Method:**  
CC

**Flash Point:**

**Flash Point Text:**  
231.8F

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
CO2, DRY CHEMICAL, FOAM, WATER MIST/FOG.

**Fire Fighting Procedures:**  
WEAR FULL PROTECTIVE CLOTHING & SCBA. KEEP FIRE-EXPOSED CONTAINERS COOL W/WATER SPRAY.

**Unusual Fire/Explosion Hazard:**  
HEAT WILL BUILD PRESSURE & MAY RUPTURE CLOSED STORAGE CONTAINERS. AUTOIGNITION TEMP: 374F. VOLATILE & FLAMMABLE. (SEE SUP)

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**  
3

**Boiling Point:**

**B.P. Text:**  
420.8F

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
-49F

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
0.02

**Vapor Density:**  
6.1

**Volatile Org Content %:**

**Spec Gravity:**  
0.9862

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
(BU AC = 1):

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
CLEAR COLORLESS LIQUID W/A VERY MILD ETHER-LIKE ODOR.

**Percent Volatiles by Volume:**  
100

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HEAT, SPARKS, OPEN FLAME, TEMP EXTREMES, DIRECT SUNLIGHT, AIR.

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

**Hazardous Decomposition Products:**  
CO &TOXIC VAPORS. EXPLOSIVE PEROXIDES CAN FORM AFTER STANDING/UPON EXPOSURE TO AIR/DIRECT SUNLIGHT.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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