

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-416/4165-60-0.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
4165-60-0

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
BENZENE-D5, NITRO-NITROBENZENE D5 \*92-2\*

**Other REC Limits:**  
N/K

**OSHA PEL:**  
1 PPM

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
1 PPM

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
FACE MASK W/ORGANIC VAPOR CANISTER. WEAR NIOSH/OSHA APPROVED RESPIRATORY PROTECTION.

**Ventilation:**  
USE GOOD VENTILATION.

**Protective Gloves:**  
NEOPRENE

**Eye Protection:**  
RECOMMENDED

**Other Protective Equipment:**  
Equipment N/K

**Work Hygienic Practices:**  
REMOVE CONTAMINATED CLOTHING.

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

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
2 EYES: LACHRYMATION. SKIN: IRRITATION & DERMATITIS. INHALATION: HEADACHE, DIZZINESS, NARCOSIS, FATALLIVER & KIDNEY DAMAGE. INGESTION: HARMFUL.

**Explanation Of Carcinogenicity:**  
METHYLENE CHLORIDE IS A SUSPECTED HUMAN CARCINOGEN BY ACGIH.

**Signs And Symptions Of Overexposure:**  
EYES: LACHRYMATION. SKIN: IRRITATION & DERMATITIS. INHALATION: HEADACHE, DIZZINESS, NARCOSIS, FATAL, LIVER & KIDNEY DAMAGE. INGESTION: HARMFUL.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
EYE: FLUSH W/PLENTY OF WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. NEVER ADMINISTER ADRENALIN AFTER METHYLENE CHLORIDE EXPOSURE, MAY CAUSE INCREASED HEART SENSITIVITY. INGESTION: NEVER GIVE ANYTHING BY MOUTH TO ANUNCONSCIOUS PERSON. DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
TAKE UP W/ABSORBENT MATERIAL.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
VENTILATE AREA. REFRIDGERATE IN SEALED CONTAINER.

**Other Precautions:**  
AVOID EYE/SKIN CONTACT & BREATHING VAPORS. POSSIBLE CANCER HAZARD. LIQUID OXYGEN OR OTHER STRONG OXIDANTS MAY FORM EXPLOSIVE MIXTURES WITH METHYLENE CHLORIDE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/K

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
WATER, CO2 & DRY CHEMICAL

**Fire Fighting Procedures:**  
WEAR SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
TOXIC VAPORS ARE FORMED WHEN THIS MATERIAL IS HEATED. METHYLENE CHLORIDE VAPORS ARE >AIR & WILL COLLECT IN LOW AREAS. 3

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
104F

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
-206.6F

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
349

**Vapor Density:**  
2.93

**Volatile Org Content %:**

**Spec Gravity:**  
1.320

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
(ETHER = 1): 0.71

**Solubility in Water:**  
N/K

**Appearance and Odor:**  
CLEAR COLORLESS LIQUID W/ETHER LIKE ODOR

**Percent Volatiles by Volume:**  
100%

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HEAT, OPEN FLAMES, HOT GLOWING SURFACES &ELECTRIC ARCS

**Materials To Avoid:**  
STRONG BASES, OXIDIZING AGENTS 4

**Hazardous Decomposition Products:**  
HYDROGEN CHLORIDE &PHOSGENE

**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



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WARRANTY  
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