

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-92/92-87-5.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
92-87-5  
**Code:**  
M

**RTECS:**  
DC9625000  
**Code:**  
M

**Name:**  
BENZIDINE

**Other REC Limits:**  
N/K

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

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
A1 CARCINOGEN (SKIN)  
**Code:**  
M N/P

**ACGIHSTEL:**  
EPA Rpt Qty: 1 LB DOT Rpt Qty: 1 LB Ozone Dep  
**Code:**  
1 ACGIH STEL:

## Control Measures

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

**Ventilation:**  
USE ONLY IN WELL VENTILATED AREA.

**Protective Gloves:**  
NEOPRENE GLOVES

**Eye Protection:**  
PROTECTIVE GLASSES.

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

**Work Hygienic Practices:**  
N/K

**Supplemental Safety and Health:**  
CONT ON FIRST AID: INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON NEVER TRY TO MAKE AN UNCONSCIOUS PERSON VOMIT . DON'T INDUCE VOMITING. IMMEDIATELY CONTACT A PHYSICIAN. OBTAIN MEDIC AL ATTENTION IN ALL CASES.

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INHALATION: MAY BE FATAL. INGESTION: HARMFUL IF SWALLOWED. GASTROINTESTINAL DISTURBANCES. SKIN: DERMATITIS.

**Explanation Of Carcinogenicity:**  
2 NONE

**Signs And Symptions Of Overexposure:**  
INHALATION: HEADACHE, DIZZINESS. INGESTION: NARCOSIS, LIVER DAMAGE, KIDNEY DAMAGE.

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

**First Aid:**  
EYES: FLUSH W/WATER FOR MINUTES. SKIN: PROMPTLY WASH W/MILD SOAP & PLENTY OF WATER. INHALATION: IMMEDIATELY MOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED IF BREATHING SS, GIVE ARTIFICIAL R ESPIRATION CONTACT A PHYSICIAN NEVER ADMINISTER ADRENALIN FOLLOWING CH2C12 EXPOSURE. INCREASED SENSITIVITY OF THE HEART TO ADRENALIN MAY BE CAUSED BY OVEREXPOSURE TO CH2C12. INGESTION: (SEE SUPP)

**Spill Release Procedures:**  
TAKE UP W/ABSORBENT MATERIAL. VENTILATE AREA. METHYLENE CHLORIDE VAPORS ARE HEAVIER THAN AIR & WILL COLLECT IN LOW AREAS.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
COMPLY W/ALL APPLICABLE FEDERAL, STATE, OR LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
REFRIGERATE IN SEALED CONTAINER.

**Other Precautions:**  
POSSIBLE CANCER HAZARD.

## 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:**  
12.0%

**Upper Limits:**  
19.0%

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

**Fire Fighting Procedures:**  
WEAR SCBA WHEN FIGHTING A CHEMICAL FIRE.

**Unusual Fire/Explosion Hazard:**  
HYDROGEN CHLORIDE, PHOSGENE.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
40C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
-97C

**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:**  
SLIGHT

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

**Percent Volatiles by Volume:**  
100

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stabilities Condition To Avoid:**  
FLAMES, HOT GLOWING SURFACES, ELECTRIC ARCS

**Materials To Avoid:**  
STRONG OXIDANTS, OXIDIZING AGENTS, ALKALI METALS.

**Hazardous Decomposition Products:**  
HYDROGEN CHLORIDE, PHOSGENE. 4

**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