

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-94/94-91-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
94-91-7  
**Code:**  
M

**RTECS:**  
GP3130000  
**Code:**  
M

**Name:**  
N,N'DISALCYLIDENE-1,2 PROPANE DIAMINE

**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:**  
IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR AIR-PURIFYING RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

**Ventilation:**  
MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

**Protective Gloves:**  
RUBBER/LATEX 7

**Eye Protection:**  
SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

**Other Protective Equipment:**  
Equipment SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

**Work Hygienic Practices:**  
OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING OR DRINKING.

**Supplemental Safety and Health:**  
FORMULA AND/OR PERCENTAGES CHANGED. FOR PREVIOUS FORMULATIONS/CONCENTRATIONS, SEE PNI A OR B, SAME NSN.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL, RAT) 12,700 MG/KG (KEROSENE)

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

**Skin:**  
YES

**Ingestion:**  
YES 5

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TARGET ORGANS:LIVER, KIDNEY, CNS, LUNG, HEART. ACUTE- CORROSIVE TO EYE & SKIN. INHALATION MAY HAVE EFFECTS ON HEART, CNS, BLOOD, LIVER, KIDNEY, SPLEEN, BONE MARROW. INGESTION MAY CAUSE GI BLEEDING, CNS DEPRESSION, VOMITING. ASPIRATION HAZARD. CHRONIC- MAY CAUSE ALLERGIC SKIN REACTION.

**Explanation Of Carcinogenicity:**  
CONTAINS STYRENE. MOUSE SKIN PAINTING STUDIES INDICATE THAT PETROLEUM MIDDLE DISTILLATE SUCH AS KEROSENE CAUSES CANCER.

**Signs And Symptoms Of Overexposure:**  
IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, DROWSINESS, BLURRED VISION, PAIN, BURNS, COUGHING, WHEEZING, SHORTNESS OF BREATH, COLLAPSE, UNCONSCIOUSNESS, BLEEDING

**Medical Cond Aggravated By Exposure:**  
INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS, BONE MARROW, BLOOD CELLS, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

**First Aid:**  
GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. ORAL:DO NOT INDUCE VOMITING. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. IF CONSCIOUS, DRINK 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE MAY BE USEFUL.

**Spill Release Procedures:**  
WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. SOAK UP SPILL WITH SAWDUST, SAND, EARTH, VERMICULITE. TRANSFER TO CONTAINER. PREVENT LIQUID FROM ENTERING SEWERS. REPORT A RELEASE OF 100 LBS OR MORE TO AUTHORITIES.

**Neutralizing Agent:**  
NOT RELEVANT

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLING OR REUSING IS RECOMMENDED.

**Handling And Storage Precautions:**  
STORE IN COOL, DRY, VENTILATED AREA, AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED. 6

**Other Precautions:**  
EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT WELD, SOLDER OR DRILL SUCH CONTAINERS. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST. DO NOT GET IN EYES OR ON SKIN. DO NOT BREATHE VAPORS. WASH THOROUGHLY AFTER HANDLING.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
PMCC

**Flash Point:**

**Flash Point Text:**  
109F,43C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
UNKNOWN

**Upper Limits:**  
UNKNOWN

**Extinguishing Media:**  
USE WATER SPRAY, CARBON DIOXIDE (CO2), FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

**Fire Fighting Procedures:**  
WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
FLAMMABLE. VAPOR CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE.

## Physical/Chemical Properties

**HCC:**  
F6

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
351F,177C

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
UNKNOWN

**Vapor Density:**  
UNKNOWN

**Volatile Org Content %:**

**Spec Gravity:**  
0.90

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
UNKNOWN

**Evaporation Rate & Reference:**  
UNKNOWN

**Solubility in Water:**  
IMMISCIBLE

**Appearance and Odor:**  
AMBER LIQUID - AMINES ODOR 8

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

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HIGH HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION

**Materials To Avoid:**  
NONE REASONABLY FORESEEABLE.

**Hazardous Decomposition Products:**  
CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN AND OTHER DECOMPOSITION PRODUCTS MAY BE FORMED.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## 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