

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-111/1116-54-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
1116-54-7  
**Code:**  
T

**RTECS:**  
KL9550000  
**Code:**  
T

**Name:**  
N-NITROSODIETHANOLAMINE Environmental Wt: Other

**Other REC Limits:**  
NONE SPECIFIED

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

**OSHA STEL:**

**Code:**

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

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

## Control Measures

**Respiratory Protection:**  
6 IF EXPOSURE EXCEEDS TLV. NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

**Ventilation:**  
LOCAL EXHAUST (FORCED AIR).

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

**Eye Protection:**  
ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:**  
Equipment EYE WASH DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

**Work Hygienic Practices:**  
N/P

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

## Health Hazards Data

**LD50LC50Mixture:**  
N/P

**Route Of Entry Inds - Inhalation:**  
NO

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: EYE IRRITATION, BURNING, REDDENING. INGESTION CAN CAUSE TOXIC EFFECTS. SKIN IRRITANT (CONCENTRATED FORM).  
CHRONIC: POSSIBLE CARCINOGEN FROM LONG-TERM VAPOR INHALATION.

**Explanation Of Carcinogenicity:**  
N-NITROSODIETHANOLAMINE: IARC MONOGRAPHS, SUPPLEMENT, VOLUME 7, PAGE 56, 1987: GROUP 2B. NTP 8TH ANNUAL REPORT ON CARCINOGENS, 1998: REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN.

**Signs And Symptoms Of Overexposure:**  
SEE HEALTH HAZARDS.

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

**First Aid:**  
SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. EYES: FLUSH CONTINUALLY WITH WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER & LOWER EYELIDS. CALL PHYSICIAN. INHALATION: REMOVE TO FRESH AIR, CONSULT P HYSICIAN. INGESTION: GIVE FLUIDS (MILK OR WATER) IF THE VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION.

**Spill Release Procedures:**  
5 RECOVER FREE LIQUID AND RETURN TO CONTAINER. ABSORB WITH INERT MATERIAL. KEEP FROM ENTERING SEWERS OR WATERWAYS.

**Neutralizing Agent:**  
N/P

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. DILUTE PRODUCT CAN BE TREATED IN INDUSTRIAL SEWER.

**Handling And Storage Precautions:**  
STORE AT ROOM TEMPERATURE. AVOID EYE CONTACT AND PROLONGED SKIN CONTACT.

**Other Precautions:**  
N/P

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**  
=100.C, 212.F

**Flash Point Text:**  
(WATER BASED)

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**  
NONE

**Upper Limits:**  
NONE

**Extinguishing Media:**  
ALL STANDARD FIRE FIGHTING MEDIA. MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

**Fire Fighting Procedures:**  
NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT ( FP N).

**Unusual Fire/Explosion Hazard:**  
N/P

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**  
=101.1C, 214.F

**B.P. Text:**

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/A

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
17.5 MM HG @ 68F

**Vapor Density:**  
1

**Volatile Org Content %:**

**Spec Gravity:**  
APPROX. 1.05 G/CC

**VOC Pounds/Gallon:**  
7

**PH:** 9.0-9.5

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
1 (BUTYL ACETATE =1)

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
PALE YELLOW LIQUID, MILD ODOR.

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

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
N/P

**Materials To Avoid:**  
NONE KNOWN.

**Hazardous Decomposition Products:**  
NITROGEN OXIDES IF COMBUSTED.

**Hazardous Polymerization Indicator:**  
NO

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

## 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