

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-251/25167-67-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

25167-67-3

**Code:**

M

**RTECS:**

EM2893000

**Code:**

M

**Name:**

BUTENE

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NORMALLY NOT REQUIRED.

**Ventilation:**

LOCAL EXHAUST:USE EXPLOSION-PROOF EQPMT. MECHANICAL (GENERAL):USE EXPLOSION-PROOF EQPMT.

**Protective Gloves:**

PROTECTIVE CRYOGENIC GLOVES. 3

**Eye Protection:**

NOT NORMALLY NECESSARY.

**Other Protective Equipment:**

Equipment NONE SPECIFIED BY MANUFACTURER.

**Work Hygienic Practices:**

NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:**

N/P

## Health Hazards Data

**LD50LC50Mixture:**

NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

NO

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

EYE: MAY PRESENT MODERATE IRRIT. SKIN: SEVERE EXPOSURE W/LIQUID MAY CAUSE FROSTBITE. INHAL: EXPOSURE TO HIGH CONC CAN RESULT IN DIZZ, ANESTHESIA OR RESP ARREST.

**Explanation Of Carcinogenicity:**

N/P

**Signs And Symptoms Of Overexposure:**

MODERATE EYE IRRITATION. FROSTBITE ON SKIN. DIZZINESS, ANESTHESIA, RESPIRATORY ARREST.

**Medical Cond Aggravated By Exposure:**

NONE SPECIFIED BY MANUFACTURER. 2

**First Aid:**

IF OVEREXPO REMOVE TO FRESH AIR. GUARD AGAINST SELF INJURY. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS SPED. CONTACT PHYSICIAN.

**Spill Release Procedures:**

SHUT OFF SUPPLY OF GAS. ELIMINATE SOURCES OF IGNITION, VENTILATE AREA. DISPERSE W/WATER SPRAY. IF LIQUID ENTERS WATERWAY/SEWERS NOTIFY LOCAL AUTHORITIES.

**Neutralizing Agent:**

NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**

DUE TO HIGH VOLATILITY RAPID EVAPORATION WILL OCCUR ALONG W/RAPID DISPERSAL OF PROD. DISPOSER MUST COMPLY W/FED/STATE/LOC DISPOSAL/DISCHARGE LAWS TO INSURE AGAINST ECOLOGICAL DMG.

**Handling And Storage Precautions:**

KEEP CNTNR AWAY FROM HEAT SOURCES. STORE IN UPRIGHT POSITION. CNTNRS SHOULD NOT BE DROPPED. ISOLATE FROM OXY, CHLORINE, COMBUST ORG, OXIDIZING MATLS.

**Other Precautions:**

STORE IN COOL WELL VENTILATED AREA OF NON-COMBUSTIBLE CONSTRUCTION AWAY FROM POSSIBLE SOURCES OF IGNITION. USE EXPLOSION-PROOF METERS & ELIMINATE ALL SOURCES OF IGNITION.

## Fire and Explosion Hazard Information

**Flash Point Method:**

**Flash Point:**

**Flash Point Text:**

N/P

**Autoignition Temp:**

**Autoignition Temp Text:**

N/P

**Lower Limits:**

1.08

**Upper Limits:**

10

**Extinguishing Media:**

DRY POWDER.

**Fire Fighting Procedures:**

DO NOT EXTINGUISH FLAMES. FLOW OF GAS. USE WATER TO KEEP FIRE-EXPO CNTNR COOL. USE WATER SPRAY TO DISPERSE UNIGN GAS/VAP. WEAR SCBA & PROT CLOTHING.

**Unusual Fire/Explosion Hazard:**

EXTREMELY FLAMMABLE.

## Physical/Chemical Properties

**HCC:**

G2

**NRC/State LIC No:**

N/P

**Net Prop WT For Ammo:**

N/P

**Boiling Point:**

**B.P. Text:**

5F-15C

**Melt/Freeze Pt:**

**Melt/Freeze Pt:**

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

N/P

**Decomp Temp:**

**Decomp Text:**

N/P

**Vapor Pres:**

30 @ 70F

**Vapor Density:**

1.86

**Volatile Org Content %:**

0.50% @ 77F

**VOC Pounds/Gallon:**

N/P

**PH: N/P**

**VOC Grams/Liter:**

N/P

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

N/P

**Solubility in Water:**

NEGLIGIBLE

**Appearance and Odor:**

COLORLESS, ODORLESS GAS

PERCENT VOLATILES BY VOLUME: 100

**Percent Volatiles by Volume:**

100

**Corrosion Rate:**

N/P

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

DO NOT INHALE VAPOR. AVOID SKIN CONTACT W/LIQUID.

**Materials To Avoid:**

OXIDIZING MATLS. MIXING W/OXYGEN OR AIR EXCEPT AT BURNER.

**Hazardous Decomposition Products:**

NONE

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NOT APPLICABLE

## 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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