

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-336/336-59-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
336-59-4  
**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
HEPTAFLUOROBUTYRIC ANHYDRIDE

**Other REC Limits:**  
N/K

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

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M N/P

**ACGIHSTEL:**  
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem  
**Code:**  
1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**  
ORGANIC VAPOR/ACID GAS RESPIRATOR.

**Ventilation:**  
LOCAL EXHAUST/MECHANICAL EXHAUST RECOMMENDED.

**Protective Gloves:**  
RUBBER/NEOPRENE

**Eye Protection:**  
SAFETY GLASSES

**Other Protective Equipment:**  
Equipment LABORATORY COAT.

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

**Supplemental Safety and Health:**  
BOILING POINT: 222.8F-228.2F.

## Health Hazards Data

**LD50LC50Mixture:**  
N/P

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
CORROSIVE. MAY IRRITATE/BURN UPPER RESPIRATORY TRACT. WILL CAUSE SEVERE BURNS ON CONTACT W/SKIN & EYES.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
IRRITATION, BURNS.

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

**First Aid:**  
SKIN/EYES: FLUSH AFFECTED AREAS W/COPIOUS AMOUNTS OF WATER FOR 15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
COVER W/EXCESS SODIUM BICARBONATE/VERMICULITE. MIX & SCOOP INTO A CONTAINER. HOLD FOR PROPER WASTE DISPOSAL. WASH SITE W/WATER.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISSOLVE/MIX THE MATERIAL W/A COMBUSTIBLE SOLVENT. BURN IN A CHEMICAL INCINERATOR EQUIPPED W/AN AFTERBURNER & SCRUBBER IAW/FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A TIGHTLY SEALED CONTAINER, IN A COOL DRY PLACE.

**Other Precautions:**  
AVOID CONTACT W/SKIN & EYES. PROTECT FROM MOISTURE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE 2

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
CO2, DRY CHEMICAL

**Fire Fighting Procedures:**  
WEAR SCBA & FULL PROTECTIVE CLOTHING.

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

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
(SEE SUPP)

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/K

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
1.67

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P 3

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
CLEAR COLORLESS LIQUID W/SHARP ACIDIC ODOR

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

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
NO

**Stability Condition To Avoid:**  
MOISTURE-SENSITIVE

**Materials To Avoid:**  
WATER

**Hazardous Decomposition Products:**  
WHEN HEATED THE MATERIAL MAY EMIT HIGHLY TOXIC OXIDES OF CARBON. ON HYDROLYSIS, IT WILL FORM HEPTAFLUOROBUTYRIC ACID.

**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