

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-163/163702-08-7.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
163702-08-7

Code:
M

RTECS:

Code:
X

Name:
PERFLUOROISOBUTYL METHYL ETHER 2

Other REC Limits:
600 PPM (MFR)

OSHA PEL:
NOT PROVIDED

Code:
M

OSHA STEL:
N/P

Code:

ACGIH TLV:
NOT PROVIDED

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
IF VAPOR CONCENTRATION EXCEEDS TLV, USE RESPIRATOR APPROVED BY NIOSH APPROVED FOR ORGANIC VAPOR.
5

Ventilation:
ADEQUATE VENTILATION TO KEEP VAPOR CONCENTRATION BELOW TLV.

Protective Gloves:
NEOPRENE.

Eye Protection:
SAFETY GLASSES REQUIRED.

Other Protective Equipment:
Equipment NONE REQUIRED UNDER NORMAL USE.

Work Hygienic Practices:
TREAT THIS CHEMICAL WITH RESPECT AND FOLLOW ALL MSDS INSTRUCTIONS. ALWAYS USE IN AREA WITH ADEQUATE VENTILATION.

Supplemental Safety and Health:
ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

Health Hazards Data

LD50LC50Mixture:
NOT PROVIDED

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
INGESTION-ASPIRATION WHICH MAY CAUSE "CHEMICAL PNEUMONIA". INHALATION-EXCESSIVE INHALATION OF VAPORS CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. SUFFOCATION IF AIR IS DISPLACED BY VAPORS. EYES-IRRITA TION. "FROSTBITE-LIKE" EFFECTS MAY OCCUR IF VAPORS CONTACT EYES. SKIN-SLIGHT IRRITATION. OVEREXPOSURE TO VAPORS MAY CAUSE FROSTBITE. CHRONIC: EXCESSIVE INHALATION MAY RESULT IN CENTRAL NERVOUS SYSTEM DEPRESSION.

Explanation Of Carcinogenicity:
NOT LISTED.

Signs And Symptoms Of Overexposure:
INGESTION-SYMPTOMS INCLUDE COUGHING, GASPING, CHOKING, SHORTNESS OF BREATH, BLUISH DISCOLORATION OF SKIN, RAPID BREATHING AND HEART RATE, AND FEVER. INHALATION-DIZZINESS, WEAKNESS, CONFUSION, UNCOORDI NATION OR UNCONSCIOUSNESS. IRREGULAR HEART BEAT WITH A STRANGE SENSATION IN THE CHEST, "HEART THUMPING", APPREHENSION, LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS MAY PROGRESS TO LOSS OF CONSCIOUSNESS AND DEATH. EYES-TEARING, PAIN OR BLURRED VISION. SKIN-ITCHING, REDNESS OR SWE

Medical Cond Aggravated By Exposure:
NOT PROVIDED

First Aid:
INGESTION-SEEK MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WATER. INHALATION- REMOVE TO FRESH AIR, IF BREATHING IS DIFFICULT GIVE OXYGEN. IF SPED PROVIDE ARTIFI CIAL RESPIRATION. KEEP PERSON WARM AND QUIET. SEEK MEDICAL ATTENTION. EYES-IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN-WASH WITH SOAP AN D WATER. THOROUGHLY CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE. IF SYMPTOMS PERSISTS,

Spill Release Procedures:
ABSORB WITH SUITABLE MEDIUM. INCINERATE OR LANDFILL ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS. DO NOT FLUSH TO SEWER. 4

Neutralizing Agent:
NOT RELEVANT

Waste Disposal Methods:
AEROSOL CANS WHEN VENTED TO ATMOSPHERIC PRESSURE THROUGH NORMAL USE, POSE NO DISPOSAL HAZARD.

Handling And Storage Precautions:
DO NOT PUNCTURE OR INCINERATE CONTAINERS. DO NOT STORE AT TEMPERATURES ABOVE 120F.

Other Precautions:
KEEP THIS AND ALL CHEMICALS OUT OF THE REACH OF CHILDREN. AVOID FOOD CONTAMINATION.

Fire and Explosion Hazard Information

Flash Point Method:
N/A

Flash Point:

Flash Point Text:
NON-FLAMMABLE

Autoignition Temp:

Autoignition Temp Text:
N/P

Lower Limits:
N/E

Upper Limits:
N/E

Extinguishing Media:
FOAM, DRY CHEMICAL, CARBON DIOXIDE.

Fire Fighting Procedures:
SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:
DO NOT EXPOSE AEROSOLS TO TEMPERATURES ABOVE 120F OR THE CONTAINER MAY RUPTURE.

Physical/Chemical Properties

HCC:
V2

NRC/State LIC No:
NOT RELEVANT

Net Prop WT For Ammo:

Boiling Point:
=62.8C, 145.F

B.P. Text:

Melt/Freeze Pt:

M.P/F.P Text:
NOT APPLICABLE

Decomp Temp:

Decomp Text:
NOT PROVIDED

Vapor Pres:
181 @ 70F

Vapor Density:
AIR=1 8.7

Volatile Org Content %:

Spec Gravity:
H20=1: 1.45

VOC Pounds/Gallon:

PH: NOT APPLICABLE 6

VOC Grams/Liter:

Viscosity:
NOT PROVIDED

Evaporation Rate & Reference:
VERY FAST

Solubility in Water:
SLIGHT

Appearance and Odor:
CLEAR SPRAY WITH ETHEREAL ODOR

Percent Volatiles by Volume:
100

Corrosion Rate:
NOT PROVIDED

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
OPEN FLAME, WELDING ARCS, HEAT, SPARKS.

Materials To Avoid:
STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:
CARBON DIOXIDE, CARBON MONOXIDE.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NONE

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