

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-311/311-89-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

311-89-7

**Code:**

M

**RTECS:**

YA1000000

**Code:**

F

**Name:**

PERFLUOROTRIBUTYLAMINE

**Other REC Limits:**

N/K (FP N)

**OSHA PEL:**

N/K (FP N)

**Code:**

M

**OSHA STEL:**

N/K (FP N)

**Code:**

M

**ACGIH TLV:**

N/K (FP N)

**Code:**

M

**ACGIH STEL:**

N/K (FP N)

**Code:**

M

## Control Measures

**Respiratory Protection:**

USE APPROPRIATE NIOSH APPROVED EQUIPMENT.

**Ventilation:**

THIS CHEMICAL SHOULD BE HANDLED ONLY IN A HOOD.

**Protective Gloves:**

WEAR IMPERVIOUS GLOVES (FP N).

**Eye Protection:**

ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:**

Equipment EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

**Work Hygienic Practices:**

N/P

**Supplemental Safety and Health:**

4 FIRST AID PROC: CONT POIS CTL CTR IMMED IF NEC. DO NOT ADMIN LIQS/INDUCE VOMIT TO AN UNCON/CONVULSING PERS. IF PATIENT IS VOMIT, WATCH CLOSELY TO MAKE SURE AIRWAY DOES NOT BECOME OBSTRUCTED BY VOMIT. IF SWALLOWED, RINSE OUT MOUTH W/WATER, PROVIDING PERS IS CONSCIOUS. GET MED ATTN IF NEC. REMOVE & WASH CONTAM CLTHG.

## Health Hazards Data

**LD50/LC50/Mixture:**

NOT AVAILABLE.

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

CONTACT LENSES SHOULD NOT BE WORN IN THE LABORATORY. ALL CHEMICALS SHOULD BE CONSIDERED HAZARDOUS - AVOID DIRECT PHYSICAL CONTACT! MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. CAN CAUSE EYE IRRITATION. CAN CAUSE SKIN IRRITATION.

**Explanation Of Carcinogenicity:**

2 N/P

**Signs And Symptoms Of Overexposure:**

SEE HEALTH HAZARDS.

**Medical Cond Aggravated By Exposure:**

N/P

**First Aid:**

AN ANTIDOTE IS A SUBSTANCE INTENDED TO COUNTERACT EFT OF POIS. IT SHOULD BE ADMINISTERED ONLY BY MD/TRAINED EMER PERS. MED ADVICE CAN BE OBTAINED FROM POIS CTL CTR. EYES: FLUSH CONTINUOUSLY W/WATER FO R 15-20 MINS. SKIN: FLUSH W/WATER FOR 15-20 MINS. IF NO BURNS HAVE OCCURRED, USE SOAP & WATER TO CLEANSE SKIN. INHAL: REMOVE TO FRESH AIR. ADMIN OXYGEN IF HAVING DCFCLTY BRTHG. IF BRTHG HAS SPED, AD MIN ARTF RESP. IF PATIENT IS IN CARD ARREST, ADMIN CPR. CONTINUE LIFE SUPPORTING MEASURES UNTI

**Spill Release Procedures:**

EVACUATE AREA. WEAR APPROPRIATE OSHA REGULATED EQUIPMENT. VENTILATE AREA. ABSORB ON VERMICULITE OR SIMILAR MATERIAL. SWEEP UP AND PLACE IN AN APPROPRIATE CONTAINER. HOLD FOR DISPOSAL. WASH CONTAMINATE D SURFACES TO REMOVE ANY RESIDUES.

**Neutralizing Agent:**

N/P

**Waste Disposal Methods:**

BURN IN A CHEMICALS INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS (FP N).

**Handling And Storage Precautions:**

THIS CHEMICAL SHOULD BE HANDLED ONLY IN A HOOD. EYE SHIELDS SHOULD BE WORN. USE APPROPRIATE OSHA/MSHA APPROVED SAFETY EQUIPMENT. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT BREATHE VAPORS. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE. STORE ONLY WITH COMPATIBLE MATERIALS.

**Other Precautions:**

N/P

## Fire and Explosion Hazard Information

**Flash Point Method:**

3

**Flash Point:**

338.0

**Flash Point Text:**

>170.0C, 338.0F

**Melt/Freeze Pt:**

170C - 180C

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

N/K

**Decomp Temp:**

N/P

**Decomp Text:**

N/P

**Decomp Pres:**

N/K

**Vapor Density:**

>1

**Volatile Org Content %:**

>1

**Spec Gravity:**

1.88

**VOC Pounds/Gallon:**

N/P

**PH:**

N/P

**VOC Grams/Liter:**

N/P

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

3

**Solubility in Water:**

INSOLUBLE (IMMISCIBLE)

**Appearance and Odor:**

CLEAR LIQUID, ODOR NOT AVAILABLE.

**Percent Volatiles by Volume:**

N/P

**Corrosion Rate:**

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

**Other Information:**

N/P

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.

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

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is

guaranteed of the properties of the product. Lookchem shall not be held liable for any damage resulting from

the use of the information contained herein or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.