

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-185/18559-94-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

18559-94-9

Code:

M

RTECS:

ZE4400000

Code:

M

Name:

ALBUTEROL

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:

NONE FOR CONSUMER PRODUCT. WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS.

Ventilation:

LOCAL VENTILATION AT THE WORKSITE; MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.

Protective Gloves:

LATEX 4

Eye Protection:

SAFETY GLASSES FOR BULK MATERIAL.

Other Protective Equipment:

Equipment NONE

Work Hygienic Practices:

USE REASONABLE CARE IN HANDLING THIS ITEM.

Supplemental Safety and Health:

NONE

Health Hazards Data

LD50/LC50 Mixture:

LC50 INHAL RAT=13PPH/15M(FREON 11)

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

INHAL: VAPOR CAN DISPLACE AIR CAUSING SUFFOCATION. SKIN: LIQUID MAY CAUSE DEFATTING, IRRITATION. EYES: MAY CAUSE IRRITATION. INGEST: ALTHOUGH THE ORAL TOXICITY OF FREON 11 IS LOW, INGESTION SHOULD BE AVOIDED.

Explanation Of Carcinogenicity:

THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA.

Signs And Symptoms Of Overexposure:

INHAL: LIGHTHEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS, DEATH.

Medical Cond Aggravated By Exposure:

PERSONS PREDISPOSED TO SKIN AND EYE SENSITIZATION MAY BE AT INCREASED RISK.

First Aid:

SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH SOAP AND WATER. EYES: FLUSH WITH WATER FOR 15 MINUTES. INHAL: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. INGEST: GET PROMPT QUALIFIED MEDICAL ATTENTION. INDUCE VOMITING ONLY UNDER THE ADVICE OF A PHYSICIAN.

Spill Release Procedures:

ELIMINATE SOURCES OF IGNITION. USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT. DIKE. SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBENT(CLAY, SAND); PLACE IN STEEL CONTAINER FOR DISPOSAL. WASH SPILL AREA WITH DETERGENT TO REMOVE SLIPPINESS.

Neutralizing Agent:

NONE

Waste Disposal Methods:

TRICHLOROFLUOROMETHANE IS RCRA AND EPA HAZARDOUS WASTE(V121, F001, F002). DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. 3

Handling And Storage Precautions:

STORE IN A COOL, DRY, WELL-VENTILATED PLACE. DO NOT HEAT ABOVE 125F.

Other Precautions:

NONE

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

NONE

Autoignition Temp:

N/K

Autoignition Temp Text:

N/K

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:

USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:

CONTAINERS MAY RUPTURE FROM HEAT OF FIRE. FIRE MAY PRODUCE TOXIC DECOMPOSITION FUMES.

Physical/Chemical Properties

HCC:

V2

NRC/State Lic No:

N/R

Net Prop WT For Ammo:

NONE

Boiling Point:

=23.9C, 75F

B.P. Text:

YES

Melt/Freeze Pt:

N/P

Decomp Temp:

N/K

Decomp Text:

N/K

Vapor Pres:

792

Vapor Density:

N/R

Volatile Org Content %:

NONE

Spec Gravity:

1.48

VOC Pounds/Gallon:

NONE

PH:

N/K

VOC Grams/Liter:

NONE

Viscosity:

N/R

Evaporation Rate & Reference:

YES

Solubility in Water:

SLIGHT, 0.1%

Aerosol/Liquid:

COLORLESS

Odor:

WITH A SLIGHT ETHEREAL ODOR.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

UNKNOWN

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

HIGH HEAT, OPEN FLAMES.

Materials To Avoid:

ALKALI, ALKALINE EARTH MATERIALS.

Hazardous Decomposition Products:

HCL, HF POSSIBLE CARBONYL HALIDES.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/R

Toxicological 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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