

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-811/81161-17-3.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
81161-17-3
Code:
M

RTECS:
DA8346000
Code:
M

Name:
ESMOLOL HYDROCHLORIDE

Other REC Limits:
NONE SPECIFIED

OSHA PEL:
NOT ESTABLISHED
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
THIS MATERIAL HAS NO ESTABLISHED EXPOSURE LIMITS. USE A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN A RESPIRATOR IS JUDGED TO BE APPROPRIATE TO PREVENT INHALATION OF VAPOR OR MIST.

Ventilation:
NO INFORMATION GIVEN ON MSDS BY MFR. HMIS: SUPPLY SUFFICIENT VENTILATION TO PRECLUDE THE USE OF RESPIRATORS.

Protective Gloves:
NEOPRENE OR TYVEK

Eye Protection:
SAFETY GLASSES & FULL FACE PROTECTION

Other Protective Equipment:
Equipment 3 WEAR IMPERVIOUS CLOTHING MADE OF NEOPRENE OR TYVEK, SUCH AS APRON, BOOTS, JUMP SUIT AS APPROPRIATE.

Work Hygienic Practices:
MFR: ? HMIS: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health:
KEY2:KT

Health Hazards Data

LD50LC50 Mixture:
LD50 (ORAL RAT) IS 71 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
BREVIBLOC INJECTION IS FORMULATED FOR HUMAN THERAPEUTIC USE AND CONTAINS 1% ESMOLOL HYDROCHLORIDE BY VOLUME. NORMAL HANDLING OF THIS PRODUCT IS NOT CONSIDERED HAZARDOUS. THE FOLLOWING INFORMATION IS PROVIDED FOR THOSE CIRCUMSTANCES WHERE HANDLING OF THIS PRODUCT RESULTS IN SIGNIFICANT POTENTIAL FOR EXPOSURE.

Explanation Of Carcinogenicity:
THE PRODUCT CONTAINS NO INGREDIENT AT 0.1% OR GREATER THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Signs And Symptoms Of Overexposure:
EXPOSURE MAY CAUSE ITCHING AND BURNING OF THE EYES. NO INFORMATION AVAILABLE CONCERNING EXPOSURE VIA SKIN CONTACT OR INHALATION. PATIENTS IN CLINICAL TRIALS HAVE EXPERIENCED HYPOTENSION. ABOUT 12% HAVE HAD DIAPHORESIS AND DIZZINESS..

Medical Condition Aggravated By Exposure:
NOT GIVEN.

First Aid:
EYE: FLUSH WITH WATER 15 MIN, HOLD LIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR. RESTORE/AID BREATHING AS NEEDED. INGESTED: IMMEDIATELY GIVE 2 LARGE GLASSES OF MILK OR WATER AND INDUCE VOMITING. (NOTHING BY MOUTH IF UNCONSCIOUS.) GET IMMEDIATE MEDICAL CARE. IF ANY IRRITATION PERSISTS OR IS SEVERE, SEE A DOCTOR.

Spill Release Procedures:
REVIEW "FIRE & EXPLOSION HAZARDS" AND "SAFETY PRECAUTIONS" BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. NO SPECIAL PROCEDURE REQUIRED FOR SMALL CLEAN-UP. 2

Neutralizing Agent:
NO INFORMATION GIVEN ON MSDS BY MFR.

Waste Disposal Methods:
TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL & LOCAL REGULATIONS.

Handling And Storage Precautions:
STORE AT ROOM TEMPERATURE (59-86°F). FREEZING DOES NOT ADVERSELY AFFECT THE PRODUCT BUT EXPOSURE TO ELEVATED TEMPERATURES SHOULD BE AVOIDED.

Other Precautions:
KEEP CONTAINER IN A DARK PLACE. KEEP CONTAINER TIGHTLY CLOSED. CLOSE CONTAINER AFTER EACH USE. DO NOT CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BE CONTAMINATED WITH THIS MATERIAL.

Fire and Explosion Hazard Information

Flash Point Method:
CC

Flash Point:

Flash Point Text:
89.6°F, 32.0°C

Autoignition Temp:

Autoignition Temp Text:
743°F

Lower Limits:
UNKNOWN

Upper Limits:
UNKNOWN

Extinguishing Media:
CARBON DIOXIDE, FOAM, OR DRY CHEMICAL

Fire Fighting Procedures:
EVACUATE PERSONNEL TO A SAFE AREA. KEEP PERSONNEL REMOVED AND UPWIND OF FIRE. WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:
NO INFORMATION GIVEN ON MSDS BY MFR.

Physical/Chemical Properties

HCC:
F3

NRC/State LIC No:
NONE

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
UNKNOWN

Melt/Freeze Pt:

M.P./F.P Text:
UNKNOWN

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
UNKNOWN

Vapor Density:
UNKNOWN

Volatile Org Content %:

Spec Gravity:
1.026

VOC Pounds/Gallon:

PH: 3.5-6

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
UNKNOWN

Solubility in Water:
UNKNOWN

Appearance and Odor:
CLEAR, COLORLESS TO SLIGHTLY YELLOW SOLUTION WITH A DISTINCTIVE ALCOHOL ODOR

Percent Volatiles by Volume:
N/K

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
STABLE AT NORMAL TEMPERATURE AND STORAGE CONDITION. SEGRADATION MAY RESULT.

Materials To Avoid:
NONE REASONABLY FORESEEABLE.

Hazardous Decomposition Products:
DECOMPOSES WITH HEAT

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
WILL NOT OCCUR

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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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 applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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