

1 - Product and Company Information

ProductNameDIETHYLMETHYL(2-(3-METHYL-2-PH - 100 MG
ENYLVALERYLOXY)-ETHYL)AMMONIUM BROMIDE

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Harmful by inhalation, in contact with skin and if swallowed.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
VALETHAMATE BROMIDE	90-22-2	201-977-8	None
Formula	C19H32NO2.Br		
Synonyms	2-Diethylaminoethyl 3-methyl-2-phenylvalerate methylbromide * 2-Diethylaminoethyl 2-phenyl-3-methylvalerate methyl bromide * Diethyl(2-hydroxyethyl)methyl-ammonium bromide 3-methyl-2-phenylvalerate * Diethyl(2-hydroxyethyl)methylammonium 3-methyl-2-phenylvalerate bromide * Ediposin * Epidosin * Epidozin * Ethanaminium, 2-((3-methyl-2-phenylvaleryl)oxy)-N,N-diethyl-N-methyl-, bromide (9CI) * 3-Methyl-2-phenylvaleric acid 2-diethylaminoethyl ester methyl bromide * 3-Methyl-2-phenylvaleric acid diethyl(2-hydroxyethyl)methylammonium bromide ester * Murel * Phenylmethylvaleriansaeure-beta-diaethylaminoethylester-brommethylat (German) * Resitan * Valeric acid, 3-methyl-2-phenyl-, ester with diethyl(2-hydroxyethyl)methylammonium bromide * Valethamate * Valethamate bromide		

4 - First Aid Measures

AFTER INHALATION
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

9 - Physical and Chemical Properties

Appearance	Physical State: Solid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY
Stable: Stable.
Materials to Avoid: Phenobarbitone.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen bromide gas.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: BP7600000

ACUTE TOXICITY

LD50
Oral
Rat
1260 mg/kg

LD50
Subcutaneous
Rat
575 MG/KG

LD50
Intravenous
Rat
4200 UG/KG

LD50
Oral
Mouse
330 mg/kg
Remarks: Peripheral Nerve and Sensation:Spastic paralysis with or without sensory change.

LD50
Subcutaneous
Mouse
105 MG/KG

LD50
Intravenous
Mouse
4200 UG/KG

LD50
Intravenous
Rabbit
9500 UG/KG

SIGNS AND SYMPTOMS OF EXPOSURE
Exposure can cause dryness of the mouth with difficulty in swallowing, dilation of the pupils, photophobia, bradycardia followed by tachycardia, palpitations, rapid respiration, rise in body temperature, hallucinations, central nervous system depression, skin rash, conjunctivitis, hypertension or hypotension, circulatory failure, and respiratory depression.

ROUTE OF EXPOSURE
Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

TARGET ORGAN INFORMATION
Nerves.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR
Non-hazardous for road transport.

IMDG
Non-hazardous for sea transport.

IATA
Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: Xn

Harmful.
R-PHRASES: 20/21/22
Harmful by inhalation, in contact with skin and if swallowed.

S-PHRASES: 36
Wear suitable protective clothing.

COUNTRY SPECIFIC INFORMATION

Germany
WGK: 3
Self-Classification

16 - Other Information



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