

Material Safety Data Sheet

according to ANSI Z400.1-2004

(+)-Verapamil Hydrochloride

Print date: 19.08.2011

Product code: 5630

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

(+)-Verapamil Hydrochloride

Further trade names

Benzeneacetonitrile, alpha-[3-[[2-(3,4-dimethoxyphenyl)ethyl]-methylamino]propoyl]

-3,4-dimethoxy- α -(1-methylethyl)-, monohydrochloride, (α R)-

Synonyms:

Benzeneacetonitrile, alpha-[3-[[2-(3,4-dimethoxyphenyl)ethyl]-methylamino]propoyl]

-3,4-dimethoxy- α -(1-methylethyl)-, monohydrochloride, (R)-; (+)-Verapamil hydrochloride; (R)

-Verapamil hydrochloride; Dexverapamil monohydrochloride; LU 33925; NSC 632821

Chemical characterization (substance)

CAS No.: 38176-02-2

Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds
Biomedizinische Forschungsreagenzien GmbH

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SECTION 2: Hazards identification

Route(s) of Entry

Signs and Symptoms of Exposure

Carcinogenicity (NTP):

Carcinogenicity (IARC):

Carcinogenicity (OSHA):

SECTION 3: Composition/information on ingredients

Substances

Sum formula: $C_{27}H_{38}N_2O_4 \times HCl \times H_2O$

Molecular weight: 509.08

Hazardous components

CAS No.	Components	Quantity
38176-02-2	(+)-Verapamil Hydrochloride	95 - 100 %

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SECTION 4: First aid measuresDescription of first aid measures**SECTION 5: Firefighting measures**Extinguishing media**SECTION 6: Accidental release measures****SECTION 7: Handling and storage**Precautions for safe handlingConditions for safe storage, including any incompatibilities

Further information on storage conditions

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SECTION 8: Exposure controls/personal protectionControl parametersExposure controls**SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties

Form:

Color:

Test method

Changes in the physical state

SECTION 10: Stability and reactivity

Stability:

Possibility of Hazardous Reactions:

SECTION 11: Toxicological informationInformation on toxicological effects

Acute toxicity

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SECTION 12: Ecological information**SECTION 13: Disposal considerations**Waste treatment methods**SECTION 14: Transport information**

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Land transport (ADR/RID)

UN number: 2811
UN proper shipping name: Toxic solid, organic, N.O.S. (Verapamil monohydrochloride hydrate)
Transport hazard class(es): 6.1
Packing group: III
Hazard label: 6.1
Classification Code: T2
Limited quantity: LQ9
Hazard-no.: 60
Tunnel restriction code: E

Inland waterways transport

UN number: 2811
UN proper shipping name: Toxic solid, organic, N.O.S. (Verapamil monohydrochloride hydrate)
Transport hazard class(es): 6.1
Packing group: III
Hazard label: 6.1

Marine transport

UN number: 2811
UN proper shipping name: Toxic solid, organic, N.O.S. (Verapamil monohydrochloride hydrate)
Transport hazard class(es): 6.1
Packing group: III
Hazard label: 6.1
Marine pollutant: No
EmS: F-A, S-A

Air transport

UN/ID number: 2811
UN proper shipping name: Toxic solid, organic, N.O.S. (Verapamil monohydrochloride hydrate)
Transport hazard class(es): 6.1
Packing group: III
Hazard label: 6.1
Limited quantity Passenger: 10kg
IATA-packing instructions - Passenger: 619
IATA-max. quantity - Passenger: 100 kg
IATA-packing instructions - Cargo: 619
IATA-max. quantity - Cargo: 200 kg

SECTION 15: Regulatory information**U.S. Regulations****SECTION 16: Other information**