

## Safety Data Sheet

#### Section 1. Product and Company Identification

Product Name Verapamil Hydrochloride

Product ID V1769

**Chemical Name** 

Arpamyl; Berkatens; Calan; Cardiagutt; Cordilox; Dignover; Geangin; Univer; Veraptin; Verexamil

(Synonyms)

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**Emergency Phone #** 

1-800-424-9300

#### Section 2. Hazards Identification

**GHS Classification** Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Skin (Category 3), H311

### GHS Label elements including precautionary statements

#### **Pictogram**



Signal word Danger

# Hazard statement

#### Hazard and precautionary statements

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

**Precautionary statements** 

P261 - Avoid breathing dust, fumes, gas, mist, vapors and spray.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.,

P280 - Wear protective gloves and protective clothing.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air a weep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor or physician if you feel unwell.

P322 - Specific measures (see First Aid Measures in Section 4).

P330 - Rinse mouth.

P361 - Remove or take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents and/or container to an approved waste disposal plant.

**HMIS Classification** Health hazard: 2

Chronic health hazard: \* Flammability: 0 Physical hazard: 0

**NFPA Rating** 

Health hazard: 2 Fire hazard: 0 Reactivity hazard: 0

**Potential Health Effects** 

Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory irritation. Skin - Acute toxicity. Toxic if in contact with skin. May cause skin irritation. Eyes - May cause eye irritation.

	Ingestion - Acute toxicity. Toxic if swallowed.			
Section 3. Composition/Information on Ingredients				
Substances				
Formula	C <sub>27</sub> H <sub>38</sub> N <sub>2</sub> O <sub>4</sub> • HCl	Formula Wt.	491.07	
CAS No.	152-11-4	EC No.	205-800-5	
Section 4. First Aid Measues				
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.			
Eye Contact	Flush eyes with water as a precaution.			
Skin Contact	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.			
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.			
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
Section 5 . Firefighting Measures				
Flash Point	Not available.			
Extingushing Media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.			
Firefighting Procedures	Wear self-contained breathing apparatus and protective clothing for fire fighting.			
Unusual Fire Hazards	Carbon oxides, nitrogen oxides (NOx) and hydrogen chloride gas.			
Section 6. Accidental Release Measures				
Personal Precautions	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.			
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.			
Methods and materials for containment and cleanup	Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.			
Section 7. Handling and Storage				
Handling	Avoid contact with skin and eyes places where dust is formed.	s. Avoid formation of dust and a	erosols. Provide appropriate exhaust ventilation at	

This product is light sensitive. Store in a cool, dry, dark place that is well-ventilated in a tightly closed container. Recommended storage temperature: Ambient

Hazardous Decomposition Products Not available.

**Other Remarks** 

**Storage Conditions** 

None.

#### **Section 8. Exposure Controls/Personal Protection**

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. The gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in secondargo with applicable laws and good laboratory practices. We hand do

technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

\*\*Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

\*\*Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) OR CEN (EU).

#### Section 9. Physical and Chemical Properties

Solid. White powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility Not available. 138.5°C-140.5°C(dec.) **Melting Point Density** Soluble in water, propylene glycol, methanol, Not available. or methylene chloride. pН Solubility Not available. Not available. Ignition Flash Point temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Soluble in water. Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

#### Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

**Materials To Avoid** 

Bases.

Hazardous Not available. Decomposition Products

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

#### Section 11. Toxicological Information

Oral LD50 Rat - 108 mg/kg Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity Not available. Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: YV8320000

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Signs and symptoms Nausea, dizziness, headache, rash, Teratogenicity Not available.

of exposure constipation.

Potential Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory irritation.

Health Effects Skin - Acute toxicity. Toxic if in contact with skin. May cause skin irritation. Eyes - May cause eye irritation. Ingestion - Acute toxicity. Toxic if swallowed.

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

Bioaccumulative potential Not available.

#### Section 13. Disposal Considerations

#### Waste Disposal

Dispose of material according to all federal, state and local regulations.

Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

#### **Section 14. Transport Information**

DOT (US) UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s.(Verapamil hydrochloride)
Reportable Quantity (RQ): N/A, Marine pollutant: No, Poison inhalation hazard: No.

UN number: 2811

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Verapamil hydrochloride).

IMDG UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Verapamil hydrochloride)

Marine pollutant: No.

**Further Information** 

#### Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold

(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard

Massachusetts Right No components are subject to the Massachusetts Right to Know Act.

**To Know Components** 

Pennsylvania Right Verapamil hydrochloride CAS #: 152-11-4 **Revision Date:** 

**To Know Components** 

New Jersey Right Verapamil hydrochloride CAS #: 152-11-4 Revision Date:

**To Know Components** 

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any Components other reproductive harm.

#### Section 16. Other Information

#### Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests soley upon the user.

**Updated** 12/11/2018

For emergencies in the USA, call CHEMTREC 800-424-9300