



# SAFETY DATA SHEET

Creation Date 08-Jul-2009

Revision Date 16-Nov-2010

Revision Number 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Description: (#1)-Verapamil hydrochloride  
Cat No. 329330000; 329330010; 329330050

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals  
Uses advised against No Information available

### Details of the supplier of the safety data sheet

#### Company

Acros Organics BVBA  
Janssen Pharmaceuticaal 3a  
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

#### Emergency Telephone Number

For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99  
Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 2

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s) T - Toxic  
R -phrase(s) none  
Risk Combination Phrases R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

### Label Elements

## 2. HAZARDS IDENTIFICATION

**Signal Word****Danger****Hazard Statements**

H301 - Toxic if swallowed

H330 - Fatal if inhaled

H311 - Toxic in contact with skin

**Precautionary Statements - EU (§28, 1272/2008)**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P310 - Immediately call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Other Hazards**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Verapamil hydrochloride	EEC No. 205-800-5	100	152-11-4	T; R23/24/25	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)	

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Description of first aid measures****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
Immediate medical attention is required

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes  
Immediate medical attention is required

**Ingestion**

Do not induce vomiting  
Call a physician or Poison Control Center immediately

<b>Inhalation</b>	Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device Immediate medical attention is required
<b>Notes to Physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment Ensure adequate ventilation Avoid dust formation Avoid contact with skin, eyes and clothing

### Environmental precautions

Should not be released into the environment

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal Avoid dust formation

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Use only under a chemical fume hood Wear personal protective equipment Avoid dust formation Do not get in eyes, on skin, or on clothing Do not breathe dust

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed Protect from light Keep refrigerated

### Specific End Uses

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Derived No Effect Level (DNEL)**

No information available.

#### **Predicted No Effect Concentration (PNEC)**

No information available.

### Exposure controls

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Measures**

Use only under a chemical fume hood Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

**Personal protective equipment****Eye Protection**

Safety glasses with side-shields

**Hand Protection**

Protective gloves

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical State**

Powder, Solid

**Appearance**

Off-white

**odor**

odorless

**pH**

4.5 - 6.5 5% soln.

**Boiling Point/Range**

No information available.

**Melting Point/Range**

140 - 144°C / 284 - 291.2°F

**Flash Point**

No information available.

**Water Solubility**

soluble

**Molecular Formula**

C<sub>27</sub> H<sub>38</sub> N<sub>2</sub> O<sub>4</sub> . H Cl

**Molecular Weight**

491.07

**10. STABILITY AND REACTIVITY****Reactivity****Chemical Stability**

Light sensitive. heat sensitive.

**Possibility of Hazardous Reactions****Hazardous Polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions .**

None under normal processing..

**Conditions to Avoid**

Avoid dust formation, Incompatible products, Exposure to light, Excess heat.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride gas.

**11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects****Acute Toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

**11. TOXICOLOGICAL INFORMATION****Component Information****Component**

Verapamil hydrochloride

LD50 Oral	LD50 Dermal	LC50 Inhalation
108 mg/kg ( Rat )		

**Chronic Toxicity****Carcinogenicity**

There are no known carcinogenic chemicals in this product

**Sensitization**

No information available.

**Mutagenic Effects**

Mutagenic effects have occurred in humans.

**Reproductive Effects**

Adverse reproductive effects have occurred in humans.

**Developmental Effects**

Developmental effects have occurred in experimental animals

**Teratogenicity**

Teratogenic effects have occurred in experimental animals.

**Target Organs**

Heart Kidney Central nervous system (CNS) Blood Reproductive System

**Other Adverse Effects**

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

**Endocrine Disruptor Information**

None known

**12. ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment****Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

**14. TRANSPORT INFORMATION****IMDG/IMO**

UN-No	2811
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.

**14. TRANSPORT INFORMATION****ADR**

UN-No 2811  
Hazard Class 6.1  
Packing Group III  
Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.

**IATA**

UN-No 2811  
Hazard Class 6.1  
Packing Group III  
Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.\*

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

All of the components in the product are on the following Inventory lists:

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Verapamil hydrochloride	205-800-5	-		-	X	-	-	-	-	X	-

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

**Chemical Safety Assessment****16. OTHER INFORMATION****Text of R phrases mentioned in Section 2-3**

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

Revision Date 16-Nov-2010

Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**16. OTHER INFORMATION****Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet