

Revision date: 05-Jan-2007 Version: 1.2 Page 1 of 8

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Emergency telephone number: Emergency telephone number:

Material Name: Verapamil Hydrochloride Tablets, Extended Release Controlled Onset (180mg, 240mg)

Trade Name: Covera-HS; Cronovera-HS; Chronovera

Chemical Family: Mixture

Intended Use: Pharmaceutical product for the treatment of high blood pressure (hypertension); angina

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Tidadi dodo				
Ingredient	CAS Number	EU EINECS List	%	
Verapamil Hydrochloride	152-11-4	205-800-5	31-33	
Butylated hydroxytoluene	128-37-0	204-881-4	*	
Black Iron Oxide	1317-61-9	215-277-5	*	
Magnesium Stearate	557-04-0	209-150-3	*	

Ingredient	CAS Number	EU EINECS List	%
Cellulose Acetate	9004-70-0	Not listed	*
Hydroxyethyl cellulose	9004-62-0	Not listed	*
Opadry	Not assigned	Not listed	*
Hydroxypropyl cellulose	9004-64-2	Not listed	*
Polyethylene glycol	25322-68-3	Not listed	*
Polyethylene oxide NF	25322-68-3	Not listed	*
Povidone	9003-39-8	Not listed	*
SODIUM CHLORIDE	7647-14-5	231-598-3	*
Hypromellose	9004-65-3	Not listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

3. HAZARDS IDENTIFICATION

Appearance: Purple, yellow, white, or blue film-coated tablets.

Signal Word: DANGER

Statement of Hazard: Toxic if swallowed.

Suspected of damaging the unborn child.

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Additional Hazard Information:

Short Term: Not expected to cause skin irritation, eye irritation (based on components).

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on liver,

kidneys, ureter, bladder (based on components).

Known Clinical Effects: May cause low blood pressure and dizziness. Occasional, transient changes reported in liver

function tests, but no liver damage seen. This material has been shown to be secreted in low

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concentrations in human breast milk.

EU Indication of danger: Toxic

Toxic to Reproduction; Category 3

EU Hazard Symbols:



EU Risk Phrases:

R25 - Toxic if swallowed.

R63 - Possible risk of harm to the unborn child.

Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your

workplace.

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: May emit toxic fumes such as oxides of nitrogen and chlorine gas.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

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Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

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dry solids. Clean spill area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with

eyes, skin, and clothing.

Storage Conditions: Store at controlled room temperature. Protect from light.

Storage Temperature: (15-25°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Butylated hydroxytoluene

ACGIH Threshold Limit Value (TWA) = 2 mg/m³ TWA

Australia TWA = 10 mg/m³ TWA

Black Iron Oxide

ACGIH Threshold Limit Value (TWA) = 1 mg/m³ TWA Australia TWA = 1 mg/m³ TWA

Magnesium Stearate

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA except stearates of toxic metals

Australia TWA = 10 mg/m³ TWA

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Verapamil Hydrochloride

Pfizer Occupational Exposure OEB3 (control exposure to the range of >10ug/m³ to < 100ug/m³)

Band (OEB):

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Use process

containment, local exhaust ventilation, or other engineering controls to maintain airborne levels within the OEB range. Keep airborne contamination levels below the exposure limits listed

above in this section.

Personal Protective Equipment:

Hands: Not required for the normal use of this product. Wear protective gloves when working with

large quantities.

Eyes: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is

possible.

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Skin: None required for normal use of this material. Wear protective clothing with long sleeves when

working with large quantities. Wash hands and arms thoroughly after handling this material. Not required for the normal use of this product. If airborne exposures are within or exceed the

Respiratory protection:Not required for the normal use of this product. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection

factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Film-coated tablets Color: Purple, yellow, white or

blue.

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Molecular Formula: Mixture Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Exposure to light. Incompatible Materials: None known

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

SODIUM CHLORIDE

Rat Inhalation LC50/1hr > 42 g/m³ Rat Oral LD 50 3 g/kg

Mouse Oral LD 50 4 g/kg Rabbit Dermal LD 50 > 10 g/kg

Hypromellose

Rat Oral LD50 > 10,000 mg/kg

Butylated hydroxytoluene

Rat Oral LD50 1700 mg/kg Mouse Oral LD50 650 mg/kg Rat Oral LD50 890 mg/kg

Mouse Intraperitoneal LD 50 138 mg/kg

Verapamil Hydrochloride

Rat Oral LD 50 108 mg/kg 163 mg/kg Mouse Oral LD 50 Intravenous LD 50 16 mg/kg Rat Intravenous LD 50 5795 mg/kg Mouse Rat Subcutaneous LD 50 107 mg/kg

Black Iron Oxide

Rat Oral LD50 >1000 mg/kg

Acute Toxicity Comments:

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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Irritation / Sensitization: (Study Type, Species, Severity)

Polyethylene glycol

Eve Irritation Rabbit Mild Skin Irritation Rabbit Mild

SODIUM CHLORIDE

Skin Irritation Rabbit Mild Mild Eye Irritation Rabbit

Butylated hydroxytoluene

Eve Irritation Rabbit Moderate Skin Irritation Rabbit Moderate

Verapamil Hydrochloride

Skin Irritation Rabbit

Polyethylene oxide NF

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Butylated hydroxytoluene

4 Week(s) Rat Oral 5185 mg/kg LOAEL Liver

4 Day(s) Oral 2000 mg/kg LOAEL Liver, Kidney, Ureter, Bladder Mouse

Magnesium Stearate

13 Week(s) Rat Oral 1092 g/kg LOAEL Liver

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Butylated hydroxytoluene

Embryo / Fetal Development Rat Oral 6 g/kg LOEL Teratogenic

Verapamil Hydrochloride

Reproductive & Fertility Rat Oral 55 mg/kg/day NOAEL Fertility

Embryo / Fetal Development Rat Oral 60 mg/kg/day NOAEL Not Teratogenic Embryo / Fetal Development Rat Oral 60 mg/kg/day LOAEL Fetotoxicity

Embryo / Fetal Development Rabbit Oral 15 mg/kg/day NOAEL Not Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Verapamil Hydrochloride

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Verapamil Hydrochloride

18 Month(s) Rat Oral 58 mg/kg/day NOAEL Not carcinogenic 2 Year(s) Rat Oral 120 mg/kg/day NOAEL Not carcinogenic

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

See below

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Povidone

IARC: Group 3

Butylated hydroxytoluene

IARC: Group 3

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Symbol: T
EU Indication of danger: Toxic

Toxic to Reproduction; Category 3

EU Risk Phrases:

R25 - Toxic if swallowed.

R63 - Possible risk of harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S28 - After contact with skin, wash immediately with plenty of water.

S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

DANGER

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Toxic if swallowed.

Suspected of damaging the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 1, Subdivision B Class D, Division 2, Subdivision A



Verapamil Hydrochloride

Australia (AICS):PresentEU EINECS List205-800-5

Butylated hydroxytoluene

Inventory - United States TSCA - Sect. 8(b) Present

Australia (AICS): Present

EU EINECS List 204-881-4

Black Iron Oxide

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
215-277-5

Cellulose Acetate

Inventory - United States TSCA - Sect. 8(b) XU
Australia (AICS): Present

Hydroxyethyl cellulose

Inventory - United States TSCA - Sect. 8(b) XU
Australia (AICS): Present

Hydroxypropyl cellulose

Inventory - United States TSCA - Sect. 8(b) XU
Australia (AICS): Present

Polyethylene glycol

Inventory - United States TSCA - Sect. 8(b) XU
Australia (AICS): Present

Polyethylene oxide NF

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

XU

Present

Povidone

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

SODIUM CHLORIDE

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Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS List

231-598-3

Magnesium Stearate

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
209-150-3

Hypromellose

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling

XU

Present

Schedule 4

for Drugs and Poisons:

16. OTHER INFORMATION

Reasons for Revision: Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard

Identification. Updated Section 7 - Handling and Storage. Updated Section 10 - Stability and

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Reactivity. Updated Section 15 - Regulatory Information.

Prepared by: Corporate Occupational Toxicology & Hazard Assessment

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End of Safety Data Sheet