

Pfizer Ltd

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Ramsgate Road

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Revision date: 07-Apr-2010 Version: 1.3 Page 1 of 10

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Verapamil Hydrochloride Tablets, Controlled-Onset Extended-Release (Can)

Trade Name: Covera-HS **Chemical Family:** Mixture

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

2. HAZARDS IDENTIFICATION

Purple or yellow film-coated tablets Appearance:

Signal Word: **DANGER**

Statement of Hazard: Toxic if swallowed.

Suspected of damaging the unborn child.

Additional Hazard Information:

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

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

kidneys, ureter, bladder (based on components) .

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

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

concentrations in human breast milk.

EU Classification

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.

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2. HAZARDS IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Verapamil Hydrochloride	152-11-4	205-800-5	T; R25, R62, R63	31-33
Butylated hydroxytoluene	128-37-0	204-881-4	Not Listed	*
Titanium dioxide	13463-67-7	236-675-5	Not Listed	*
Black Iron Oxide	1317-61-9	215-277-5	Not Listed	*
Magnesium Stearate	557-04-0	209-150-3	OEL	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Cellulose Acetate	9004-70-0	Not listed	Not Listed	*
Lactose	63-42-3	200-559-2	Not Listed	*
Hydroxypropyl cellulose	9004-64-2	Not listed	Not Listed	*
Polyethylene oxide NF	25322-68-3	Not listed	Not Listed	*
Polysorbate 80	9005-65-6	Not listed	Not Listed	*
Povidone	9003-39-8	Not listed	Not Listed	*
SODIUM CHLORIDE	7647-14-5	231-598-3	Not Listed	*
Hydroxypropyl methylcelluslose	9004-65-3	Not listed	Not Listed	*
Hydroxyethyl cellulose	9004-62-0	Not listed	Not Listed	*
Polyethylene glycol	25322-68-3	Not listed	Not Listed	*

Additional Information: * Proprietary

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

safety.

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

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.

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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.

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

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: avoid breathing dust and avoid contact with eyes, skin, and clothing. If tablets or capsules are

crushed and/or broken, Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA

filtration systems or other equivalent controls.

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

Storage Temperature: (15-25°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Butylated hydroxytoluene

2 mg/m³ TWA **ACGIH Threshold Limit Value (TWA)** 10 mg/m³ **Australia TWA** Austria OEL - MAKs Listed **Belgium OEL - TWA** Listed **Bulgaria OEL - TWA** Listed **Denmark OEL - TWA** Listed **Finland OEL - TWA** Listed France OEL - TWA Listed

Germany (DFG) - MAK 20 mg/m³ MAK

Greece OEL - TWA Listed
Ireland OEL - TWAs Listed
Portugal OEL - TWA Listed
Slovenia OEL - TWA Listed

Titanium dioxide

ACGIH Threshold Limit Value (TWA)

Australia TWA

Austria OEL - MAKs

Belgium OEL - TWA

Bulgaria OEL - TWA

Listed

Listed

Listed

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Denmark OEL - TWA

Estonia OEL - TWA

France OEL - TWA

Greece OEL - TWA

Listed

Ireland OEL - TWAs

Listed

Latvia OEL - TWA

Listed

OSHA - Final PELS - TWAs: 15 mg/m³ total

Poland OEL - TWA Listed
Portugal OEL - TWA Listed
Romania OEL - TWA Listed
Spain OEL - TWA Listed
Sweden OEL - TWAs Listed

Black Iron Oxide

ACGIH Threshold Limit Value (TWA) 1 mg/m³ TWA 1 mg/m^3 **Australia TWA Belgium OEL - TWA** Listed **Bulgaria OEL - TWA** Listed Czech Republic OEL - TWA Listed Finland OEL - TWA Listed **Greece OEL - TWA** Listed Portugal OEL - TWA Listed Listed Spain OEL - TWA

Polyethylene oxide NF

Austria OEL - MAKsListedGermany - TRGS 900 - TWAs1000 mg/m³Germany (DFG) - MAK1000 mg/m³ MAK

Slovenia OEL - TWA Listed

SODIUM CHLORIDE

Latvia OEL - TWA Listed
Lithuania OEL - TWA Listed

Magnesium Stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³ TWA 10 mg/m³ **Australia TWA Belgium OEL - TWA** Listed Ireland OEL - TWAs Listed Lithuania OEL - TWA Listed Portugal OEL - TWA Listed Spain OEL - TWA Listed **Sweden OEL - TWAs** Listed

Polyethylene glycol

 Austria OEL - MAKs
 Listed

 Germany - TRGS 900 - TWAs
 1000 mg/m³

 Germany (DFG) - MAK
 1000 mg/m³ MAK

Slovenia OEL - TWA Listed

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Not required for the normal use of this product. Wear impervious gloves if skin contact is

possible.

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

possible.

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 or yellow

Molecular Formula: Mixture Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Chemical 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)

Titanium dioxide

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11. TOXICOLOGICAL INFORMATION

Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD 50 50 mg/kg

Lactose

Rat Oral LD50 > 10 g/kg

Polysorbate 80

Rat Oral LD50 25 g/kg

SODIUM CHLORIDE

Rat Sub-tenon injection (eye) LC50/1hr $> 42 \text{ g/m}^3$ Rat Oral LD 50 3 g/kg Mouse Oral LD 50 4 g/kg Rabbit Dermal LD 50 > 10 g/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

Hydroxypropyl methylcelluslose

Rat Oral LD50 > 10,000 mg/kg

Verapamil Hydrochloride

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

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

Polyethylene glycol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

SODIUM CHLORIDE

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

Butylated hydroxytoluene

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Moderate

Polyethylene oxide NF

Eye Irritation Rabbit Mild

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11. TOXICOLOGICAL INFORMATION

Skin Irritation Rabbit Mild

Verapamil Hydrochloride

Skin Irritation Rabbit Mild

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

Magnesium Stearate

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

Butylated hydroxytoluene

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

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

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: See below

Titanium dioxide

IARC: Group 3 (Not Classifiable)

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.

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

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

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



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15. REGULATORY INFORMATION

Verapamil Hydrochloride

Australia (AICS): Listed EU EINECS/ELINCS List 205-800-5

Butylated hydroxytoluene

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

Australia (AICS):

EU EINECS/ELINCS List

204-881-4

Titanium dioxide

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

Australia (AICS):

EU EINECS/ELINCS List

236-675-5

Black Iron Oxide

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

Schedule 4
Schedule 5

Schedule 5 Schedule 6

EU EINECS/ELINCS List 215-277-5

Cellulose Acetate

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

Australia (AICS):

Listed

Lactose

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

Australia (AICS):

EU EINECS/ELINCS List

200-559-2

Hydroxypropyl cellulose

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

Australia (AICS):

Listed

Polyethylene oxide NF

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

Australia (AICS):

Listed

Polysorbate 80

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

Australia (AICS):

Listed

Povidone

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

Australia (AICS):

Listed

SODIUM CHLORIDE

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

Australia (AICS):

Listed

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15. REGULATORY INFORMATION

EU EINECS/ELINCS List 231-598-3

Hydroxypropyl methylcellusiose

Inventory - United States TSCA - Sect. 8(b)ListedAustralia (AICS):ListedStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

Magnesium Stearate

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

Australia (AICS):

EU EINECS/ELINCS List

209-150-3

Hydroxyethyl cellulose

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

Australia (AICS):

Listed

Polyethylene glycol

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

Australia (AICS):

Listed

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R25 - Toxic if swallowed.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
