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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Inc
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Pfizer Pharmaceuticals Group
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Emergency telephone number: Emergency telephone number:

Material Name: Diltiazem Hydrochloride Capsules - 180 and 240 mg

Trade Name: Dilzem Chemical Family: Mixture

Intended Use: Pharmaceutical product used for angina high blood pressure (hypertension)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Diltiazem Hydrochloride	33286-22-5	251-443-3	43.65
Talc (non-asbestiform)	14807-96-6	238-877-9	28.1
Sucrose	57-50-1	200-334-9	9.1
Corn Starch	9005-25-8	232-679-6	1.5
Fumaric acid	110-17-8	203-743-0	10.9

Ingredient	CAS Number	EU EINECS List	%
Poly (ethylacrylate, methylmethacrylate,	Not assigned	Not listed	*
trimethylammonioethylmethacrylatechloride) 1:2:0:1			
Poly (ethylacrylate, methylmethacrylate,	Not assigned	Not listed	*
trimethylammonioethylmethacrylatechloride) 1:2:0:2	_		
Purified water	7732-18-5	231-791-2	*
Povidone	9003-39-8	Not listed	*

Additional Information: * Proprietary

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

safety.

3. HAZARDS IDENTIFICATION

Appearance: Capsules Signal Word: WARNING

Statement of Hazard: May be harmful if swallowed.

May cause harm to the unborn child.

Additional Hazard Information:

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Short Term: May cause eye irritation (based on components). Drugs of this class have been associated

> with rare, but potentially serious cardiac events. These events have not been observed from occupational exposures, however, those with preexisting cardiovascular illnesses may be at

increased risk from exposure.

Long Term: Animal studies indicate that this material may cause adverse effects on the fetus. **Known Clinical Effects:**

Ingestion of this material may cause effects similar to those seen in clinical use including

dizziness, fatigue, hypotension (low blood pressure), edema and dyspnea.

EU Indication of danger:

Toxic to reproduction, Category 2

EU Hazard Symbols:



EU Risk Phrases:

R22 - Also harmful if swallowed

R61 - May cause 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: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Remove clothing and wash affected skin with soap and water. If irritation occurs or persists,

get medical attention.

Ingestion: Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

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

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. Minimize dust generation and accumulation. Use with adequate

ventilation.

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Diltiazem Hydrochloride

Pfizer OEL TWA-8 Hr: 1.0 mg/m³

Talc (non-asbestiform)

OSHA - Final PELs - Table Z-3 Mineral D: = 20 mppcf TWA

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

Australia TWA = 2.5 mg/m³ TWA containing no asbestos fibers

Sucrose

Corn Starch

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

 $= 5 \text{ mg/m}^3 \text{ TWA}$

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA Australia TWA = 10 mg/m³ TWA

71000101110

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

 $= 5 \text{ mg/m}^3 \text{ TWA}$ **ACGIH Threshold Limit Value (TWA)** $= 10 \text{ mg/m}^3 \text{ TWA}$

Australia TWA = 10 mg/m³ TWA = 10 mg/m³ TWA

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

Analytical Method: Analytical method available for Diltiazem Hydrochloride. Contact Pfizer Inc for further

information.

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

room ventilation is adequate unless the process generates dust, mist or fumes.

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.

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

large quantities.

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Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Capsule Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: None known

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers.

11. TOXICOLOGICAL INFORMATION

General Information: There are no data for this formulation. The information included in this section describes the

potential hazards of the individual ingredients.

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

Diltiazem Hydrochloride

Rat Oral LD50 560 mg/kg
Rat Intravenous LD50 38 mg/kg
Rat Subcutaneous LD50 520 mg/kg
Mouse Oral LD50 508 mg/kg
Mouse Intravenous LD50 58 mg/kg

Talc (non-asbestiform)

Rat Oral LD50 > 1600 mg/kg

Sucrose

Rat Oral LD50 29.7 g/kg

Povidone

Rat Oral LD50 100 g/kg

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

Fumaric acid

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

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

Diltiazem Hydrochloride

Reproductive & Fertility Rat Oral 100 mg/kg/day NOAEL Fertility

Embryo / Fetal Development Mouse Oral 25 mg/kg LOAEL Embryotoxicity

Embryo / Fetal Development Rat Intraperitoneal 80 mg/kg LOAEL Embryotoxicity, Teratogenic

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Embryo / Fetal Development Rabbit Intraperitoneal 125 mg/kg LOAEL Fetotoxicity, Teratogenic

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

Diltiazem Hydrochloride

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Mammalian Cell Mutagenicity Negative In Vitro Mammalian Cell Mutagenicity Negative

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

Diltiazem Hydrochloride

21 Month(s) Mouse Oral 30 mg/kg/day NOAEL Not carcinogenic 24 Month(s) Rat Oral 100 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

Talc (non-asbestiform)

IARC: Group 3

Povidone

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:

EU Indication of danger: Harmful

Toxic to reproduction, Category 2

EU Risk Phrases:

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R22 - Also harmful if swallowed

R61 - May cause harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

WARNING

May be harmful if swallowed. May cause harm to the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

D2a very toxic materials



Diltiazem Hydrochloride

California Proposition 65 Listed - Developmental Toxicity

Australia (AICS): Present EU EINECS List 251-443-3

Talc (non-asbestiform)

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

Australia (AICS):

EU EINECS List

Present
238-877-9

Sucrose

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

Australia (AICS):

Present

EU EINECS List

200-334-9

Purified water

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

Australia (AICS):

EU EINECS List

Present
231-791-2

Corn Starch

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

Australia (AICS): Present

EU EINECS List 232-679-6

Povidone

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

Fumaric acid

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CERCLA/SARA Hazardous Substances = 2270 kg final RQ and their Reportable Quantities: = 5000 lb final RQ

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

Australia (AICS):

EU EINECS List

Present
203-743-0

16. OTHER INFORMATION

Reasons for Revision: Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures.

Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 13 -

Disposal Considerations.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet