

Revision date: 04-Jan-2007

Version: 1.1

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

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-212-573-2222 Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Diltiazem Hydrochloride Film Coated Tablets - 90 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	19.72
Titanium dioxide	13463-67-7	236-675-5	*
Talc (non-asbestiform)	14807-96-6	238-877-9	*
Magnesium stearate	557-04-0	209-150-3	*

Ingredient	CAS Number	EU EINECS List	%
Lactose Monohydrate	64044-51-5	Not listed	*
Stearic acid	57-11-4	200-313-4	*
Hypromellose	9004-65-3	Not listed	*
Macrogol 6000	Not assigned	Not listed	*
Silicone antifoam agent	Not assigned	Not listed	*
Hydrogenated castor oil	8001-78-3	232-292-2	*
Water, purified	7732-18-5	231-791-2	*
Carboxymethylcellulose sodium	9004-32-4	Not listed	*

Additional Information:

* Proprietary

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

3. HAZARDS IDENTIFICATION

Appearance:	Tablet
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:	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: Known Clinical Effects:	Animal studies indicate that this material may cause adverse effects on the fetus. 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:	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.
Induction	Cot modical attention. Do not induce vomiting unloss directed by modical personnal. Never

 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.		
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.		

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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	
Titanium dioxide OSHA - Final PELS - TWAs: ACGIH Threshold Limit Value Australia TWA	(TWA)	= 15 mg/m ³ TWA = 10 mg/m ³ TWA = 10 mg/m ³ TWA	total
Talc (non-asbestiform) OSHA - Final PELs - Table Z-3 ACGIH Threshold Limit Value Australia TWA		= 20 mppcf TWA = 2 mg/m³ TWA = 2.5 mg/m³ TWA	containing no asbestos fibers
Magnesium stearate ACGIH Threshold Limit Value Australia TWA The exposure limit(s) listed for s		= 10 mg/m³ TWA = 10 mg/m³ TWA elevant if dust may be	except stearates of toxic metals
Analytical Method:	Analytical method availab information.	ole for Diltiazem Hydr	ochloride. Contact Pfizer Inc for further
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 norm large quantities.	al use of this produc	t. Wear protective gloves when working with
Eyes:	5 1	al conditions of use.	Wear safety glasses or goggles if eye contact i
Skin:		al use of this produc	t. Wear protective clothing when working with
Respiratory protection:	If the applicable Occupation		(OEL) is exceeded, wear an appropriate control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES:

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Molecular Formula:	Mixture	Molecular Weight:	Mixture
10. STABILITY AND REACTIV	ΙΤΥ		
Stability: Conditions to Avoid: Incompatible Materials:	Stable under normal con None known As a precautionary meas	nditions of use. sure, keep away from strong oxidizers.	
11. TOXICOLOGICAL INFORM	ATION		
General Information:	There are no data for thi potential hazards of the	s formulation. The information included i individual ingredients.	n this section describes the
Acute Toxicity: (Species, Route, End	<u>l Point, Dose)</u>		
Mouse Oral LD50 508 mg/kg Mouse Intravenous LD50 58	mg/kg		
Lactose Monohydrate Rat Oral LD 50 29700 mg/kg			
Stearic acid Rat Oral LD50 > 4640 mg/kg Rabbit Dermal LD50 > 5000	-		
Talc (non-asbestiform) Rat Oral LD50 > 1600 mg/k	g		
Carboxymethylcellulose sodiumMouseOralLD50> 27,000 mg/kgRatOralLD5027,000 mg/kgRabbitDermalLD50> 2000	g		
Titanium dioxide Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD 50 50 r	mg/kg		
Magnesium stearateRatOralLD50> 2000 mg/kgRatInhalationLC50> 2000 r			
Hypromellose Rat Oral LD50 > 10,000 mg/k Acute Toxicity Comments:	-) indicates that the toxicity endpoint bein I in the test. 	g tested was not achievable

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

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Stearic acid Skin Irritation Rabbit Mild

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

Carboxymethylcellulose sodium

13 Week(s) Rat Oral 227 g/kg LOAEL Liver, Kidney, Ureter, Bladder

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 Intraperitoneal Embryotoxicity, Teratogenic Rat 80 mg/kg LOAEL 125 mg/kg Embryo / Fetal Development Rabbit Intraperitoneal Fetotoxicity, Teratogenic LOAEL

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

Diltiazem Hydrochloride

Bacterial Mutagenicity (Ames)Salmonella , E. coliNegativeIn Vivo Mammalian Cell MutagenicityNegativeIn Vitro Mammalian Cell MutagenicityNegative

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

Diltiazem Hydrochloride

21 Month(s)	Mous	e Oral	30 r	ng/kg/day	NOAEL	Not carcinogenic
24 Month(s)	Rat	Oral	100 m	ng/kg/day	NOAEL	Not carcinogenic

Group 3
Group 2B

IARC:	Group 2	
OSHA:	Present	

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.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EU Symbol: EU Indication of danger:	T Toxic to Reproduction: Category 2
EU Risk Phrases:	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
Lactose Monohydrate	
Australia (AICS):	Present
Stearic acid	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	200-313-4
Hypromellose	
Inventory - United States TSCA - Sect. 8(b)	XU
Australia (AICS):	Present

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Schedule 4

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Standard for the Uniform Scheduling

for Drugs and Poisons: **Titanium dioxide** Inventory - United States TSCA - Sect 8(b) Present

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

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.

End of Safety Data Sheet

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Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 236-675-5
Hydrogenated castor oil Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 232-292-2
Talc (non-asbestiform) Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 238-877-9
Water, purified Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 231-791-2
Magnesium stearate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 209-150-3
Carboxymethylcellulose sodium Inventory - United States TSCA - Sect. 8(b) Australia (AICS):	XU Present