

SAFETY DATA SHEETS

This SDS packet was issued with item:

078930580

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078930581



Pharmaceuticals

Diltiazem Hydrochloride Raw Material Material Safety Data Sheet

1090 Horsham Road
North Wales, PA 19454
Effective: 3/25/2010 12:13:00 PM

Telephone Calls: (201) 930-3411
Emergency Contact: Chemtrac
1-800-424-9300 24 Hours

SECTION 1 - IDENTIFICATION

<i>PRODUCT NAME</i>	Diltiazem Hydrochloride Raw Material	<i>SYNONYMS</i>	Cardizem, Tiazac, Dilacor
<i>CHEMICAL FAMILY</i>	Benzothizaepine	<i>THERAPEUTIC CATEGORY</i>	Coronary Vasodilator (calcium channel blocker).

SECTION 2 – HEALTH HAZARD INFORMATION

EMERGENCY OVERVIEW

WARNING – EFFECTS CARDIOVASCULAR SYSTEM; THIS
MATERIAL IS A TEVA OHC 3 NON SMMA PRODUCT.

ECB

Toxic
R22 – Harmful if swallowed.
R24 – Toxic in contact with skin.
R36/38 - Irritating to eyes/skin.
R48 – Danger of serious damage to health by
prolonged exposure.
R61 – May cause harm to the unborn child
(Category 2).
S36/37 – Wear suitable protective
clothing/gloves.
S45 – In case of accident or if you feel unwell,
seek medical advice immediately.
S53 – Avoid exposure – obtain special
instructions before use.



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GHS

Danger, Warning
Acute Toxicity – Category 3 – Toxic if
swallowed.
Acute Dermal toxicity – Category 3 – Toxic in
contact with skin.
Skin Irritation – Category 2 – Causes skin
irritation.
Target Organ Toxicity – Category 1 – Causes
damage to organs through repeated or prolonged
exposure.
Reproductive Toxicity – Category 1B – May
cause damage to fertility or the unborn child.

***EYE***

Contact may cause irritation.

SKIN

Contact may cause moderate irritation.

INGESTION

Ingestion may cause irritation.

INHALATION

Breathing of dust may cause irritation to the respiratory tract.

***ADVERSE SYSTEMIC
EFFECTS***

Peripheral edema, headache, pain, dizziness, asthenia, dyspepsia, increased
frequency of coughing, and dyspnea.

***CHRONIC (CANCER)
INFORMATION***

NTP – Not Listed
IARC – Not Listed
OSHA – Not listed

REPRODUCTION INFO

No adequate human studies have been conducted. This material is an FDA
Pregnancy Category C material.

MEDICAL

Individuals with hypersensitivity to material and individuals with sick sinus

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***CONDITIONS/MEDS
AGGRAVATED BY
EXPOSURE***

syndrome or 2nd or 3rd degree AV block (except those with pacemakers).

TARGET ORGANS

Cardiovascular System.

APPEARANCE

White to off white crystalline powder.

ODOR

Odorless with a bitter taste.

SECTION 3 – INGREDIENT INFORMATION

<i>COMPONENT</i>	<i>CAS NUMBER</i>	<i>% BY WEIGHT</i>
Diltiazem Hydrochloride	33286-22-5	100

SECTION 4 – FIRST AID MEASURES***EYES***

Flush with large quantities of water for 15 minutes.

SKIN

Powders: Brush off material, remove contaminated clothing, flush with large quantities of water for 15 minutes.

INGESTION

Flush mouth with water – obtain medical attention.

INHALATION

Remove to fresh air.

NOTE TO PHYSICIANS

N/A

SECTION 5 – FIRE FIGHTING MEASURES***FLAMMABLE
PROPERTIES***

Material is assumed to be combustible. As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material in order to dissipate static charges.

***HAZARDOUS
COMBUSTION
PRODUCTS***

Emits toxic fumes under fire conditions.

***EXTINGUISHING
MEDIA***

Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

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***FIRE FIGHTING
INSTRUCTION***

As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES***SMALL SPILL***

Wear recommended PPE. Scoop up slowly without generating dust. (NO DRY SWEEPING). Wet wipe surfaces.

LARGE SPILL

Wear recommended PPE. Scoop up slowly without generating dust. (NO DRY SWEEPING). Wet wipe surfaces.

SECTION 7 – HANDLING AND STORAGE***HANDLING***

Keep container closed, minimize dust generation during transfer. Also for more handling information, contact EHS, see Teva Global EHS "Guidelines for Safe Handling of APIs & Drugs" or "Containment Guidelines for Handling Different Quantities of Active Ingredients".

STORAGE

Store in a tight container and keep away from light and heat.

SECTION 8 – EXPOSURE CONTROL AND PPE***ENGINEERING
CONTROLS***

Operations involving handling/transferring of dry powder must be performed using containment measures (i.e. enclosures, etc.) and local exhaust ventilation.

***RESPIRATORY
PROTECTION***

Manufacturing operations (weighing out active material, compounding, compression/encap, coating) require PAPR equipped with HEPA cartridges. Packaging and lab operations require NIOSH approved and properly fitted respirator.

SKIN PROTECTION

Manufacturing operations (weighing active material, compounding, compression/encap/coating) require one layer of work uniform or disposable coveralls, and appropriate gloves. Packaging operations require work uniform and gloves. Lab operations require lab coat and appropriate gloves.

EYE PROTECTION

Manufacturing operations (weighing active material & compounding,

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compression/coating) require PAPR hood. Packaging and lab operations require Safety Glasses with Side Shields.

COMPONENT

Diltiazem Hydrochloride

EXPOSURE LIMIT

PIEL 40 ug/m3.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<i>BOILING POINT</i>	No information found.	<i>MELTING POINT</i>	207- 212 and also reported as 187-188 °C	<i>pH</i>	4.3-5.3 (1% Aqueous Solution).
<i>VAPOR PRESSURE</i>	No information found.	<i>VAPOR DENSITY</i>	No information found.		
<i>SOLUBILITY IN WATER</i>	Freely Soluble.	<i>ODOR</i>	Odorless with a bitter taste.		
<i>APPEARANCE</i>	White to off white crystalline powder.	<i>SPECIFIC GRAVITY</i>	No information found.		
<i>AUTOIGNITION TEMPERATURE</i>	No information found.	<i>FLAMMABLE LIMITS</i>	No information found.		
<i>MOLECULAR WEIGHT</i>	450.98	<i>FLASHPOINT</i>	N/A		
<i>OCTANOL/WATER COEFFICIENT</i>	2.7	<i>EVAPORATION RATE</i>	N/A		

SECTION 10 – STABILITY AND REACTIVITY

<i>CHEMICAL STABILITY (CONDITIONS TO AVOID)</i>	This material is considered stable from a safety point of view. Avoid exposure to light.
<i>INCOMPATIBILITY</i>	Strong Oxidizers.
<i>HAZARDOUS</i>	When heated to decomposition, material emits toxic fumes of NO _x , SO _x

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***DECOMPOSITION
PRODUCTS*** and HCl.

***HAZARDOUS
POLYMERIZATION*** Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE No information found.

SKIN No information found.

INGESTION No information found.

INHALATION No information found.

ACUTE/SUBCHRONIC LD50 (560 mg/kg oral-rat, 271 mg/kg skin- rat).

***MUTAGENICITY/
CARCINOGENICITY*** Mutagenicity test battery (in vitro and in vivo) produced negative results.
Animal carcinogenicity studies in mice have not shown carcinogenicity.

REPRODUCTION Animal studies in rats, rabbits and mice have shown
embryotoxicity/lethality at high doses, and teratogenicity in one species or
another (skeletal, heart, retina, and tongue abnormalities). Male and
female rat studies have not shown fertility impairment.

SECTION 12 – ECOLOGICAL INFORMATION

***ECOTOXICOLOGICAL
INFORMATION*** No information found.

***CHEMICAL FATE
INFORMATION*** No information found.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in appropriate container, keep container closed. If possible, ensure that liquids/powders are in
a sealed inner container. Label with appropriate Non-Hazardous waste label. Move full drums to



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designated waste storage area.

SECTION 14 – TRANSPORTATION INFORMATION

NON DOT REGULATED MATERIAL.

SECTION 15 – REGULATORY INFORMATION

OSHA N/A

CERCLA N/A

***SECTION 313 (SARA
TITLE III)*** N/A

OTHER REGULATIONS Subject to California Proposition 65 (known to the state to cause developmental toxicity) warning and release requirements April 1, 1990 and the California Safe Drinking Water and Toxic Enforcement Act of 1986 to keep out of water supplies and sewers.

SECTION 16 – OTHER INFORMATION

PREPARED BY Rob Mc Cafferty & Nevada Venhorst.

REVISIONS Updated to Teva's OHC from Barr's & Updated Section 8 with PIEL.

DISCLAIMER:

Teva Pharmaceuticals, Inc. provides the information contained in this MSDS sheet in good faith but makes no claim as to its accuracy or Comprehensiveness. This MSDS sheet is intended as a guide for a properly trained person to utilize appropriate precautionary methods while handling this product. Individuals must exercise their own judgment in determining the appropriateness of this information for a particular purpose. All MSDS sheets are subject to revision from time-to-time as new information becomes available. Anyone proposing to rely on information regarding the substance that is the subject of this MSDS sheet is responsible for ensuring that he or she has obtained and reviewed the most recent version of the sheet available at the time. Teva Pharmaceuticals, Inc. will not be responsible for damages resulting from the use or misuse of the information contained in this MSDS sheet.