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

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Material Name: Metoprolol Tartrate/Hydrochlorothiazide Extended Release Tablets

Trade Name: Co-Betaloc SA

Synonyms: None

Chemical Family: Not determined Intended Use: Antihypertensive

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Metoprolol Tartrate	56392-17-7	260-148-9	200 mg***
Hydrochlorothiazide	58-93-5	200-403-3	25 mg***
Microcrystalline cellulose	9004-34-6	232-674-9	*
Iron oxide	1309-37-1	215-168-2	*
Paraffin	8002-74-2	232-315-6	*
Ethanol	64-17-5	200-578-6	*
Maize starch	9005-25-8	232-679-6	*

Ingredient	CAS Number	EU EINECS List	%
Purified water	7732-18-5	231-791-2	*
Hydroxypropyl methylcellulose	9004-65-3	Not listed	*
Polyethylene glycol	25322-68-3	Not listed	*
Sodium stearylfumarate	4070-80-8	223-781-1	*
Povidone	9003-39-8	Not listed	*
Ethylcellulose	9004-57-3	Not listed	*
Lactose	63-42-3	200-559-2	*
Sodium aluminosilicate	1344-00-9	215-684-8	*
Riboflavin (Vitamin B2)	83-88-5	201-507-1	*
Magnesium Stearate	557-04-0	209-150-3	*

Additional Information: * Proprietary

3. HAZARDS IDENTIFICATION

Appearance:TabletsSignal Word:WARNING

^{***} per tablet/capsule/lozenge/suppository

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Statement of Hazard: Antihypertensive drug: has blood pressure-lowering properties

Suspected of damaging the unborn child.

Additional Hazard Information:

Short Term: Not acutely toxic (based on components). An Occupational Exposure Limit has been

established for one or more of the ingredients (see Section 8).

Known Clinical Effects: The most common adverse effects seen during clinical use of this drug include headache,

chest pain, dizziness, gastrointestinal disturbances, and decreased heart rate (bradycardia).

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Due to intended use, dangerous lowering of blood pressure can occur.

EU Indication of danger: Toxic to Reproduction; Category 3



R63 - Possible risk of harm to the unborn child.

Additional Information: For a more detailed discussion of potential health hazards and toxicity see Section 11. 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. This material may not be

completely removed by conventional laundering. Consult professional laundry service. Do not

home launder. If irritation occurs or persists, get medical attention.

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

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: Fine particles (such as dust and mists) may fuel fires/explosions.

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: Wipe up with a damp cloth and place in container for disposal. 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

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avoid environmental release.

Additional Consideration for Large

Spills:

Contain the source of the spill or leak if it is safe to do so. Vacuum or sweep material into

appropriate container for disposal.

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 out of direct sunlight in a cool, well ventilated, dry area.

Storage Temperature Store below 25°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hydrochlorothiazide

Pfizer OEL TWA-8 Hr: 0.25 mg/m³

Microcrystalline cellulose

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

5 mg/m³ respirable fraction

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

Iron oxide

OSHA - Final PELS - TWAs

ACGIH Threshold Limit Value (TWA)

5 mg/m³ TWA

Paraffin

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

Ethanol

OSHA - Final PELS - TWAs 1000 ppm 1900 mg/m³

ACGIH Threshold Limit Value (TWA) 1000 ppm TWA

Maize starch

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

5 mg/m³ respirable fraction

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

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

exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a

lab fume hood.

Personal Protective Equipment:

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Tablets Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers.

11. TOXICOLOGICAL INFORMATION

General Information: There are no data for this formulation. The following information is available for the individual

ingredients.

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

Lactose

Rat Oral LD50 > 10 g/kg

Magnesium Stearate

Rat Oral LD 50 1092 gm/kg/13 weeks

Hydroxypropyl methylcellulose

Rat Oral LD50 > 10,000 mg/kg

Microcrystalline cellulose

Rat Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

Ethanol

Mouse Oral LD50 3,450 mg/kg
Rat Oral LD50 7,060mg/kg
Mouse Inhalation LC50 4h 39g/m³
Rat Inhalation LC50 10h 20,000mg/kg

Metoprolol Tartrate

Oral LD50 5500 mg/kg Rat Intravenous LD50 Rat 71.9 mg/kg Mouse Oral LD50 1500 mg/kg LD50 Mouse Intravenous 62 mg/kg Mouse Intraperitoneal LD50 > 200 mg/kg

Hydrochlorothiazide

Rat Oral LD 50 2750 mg/kg Mouse Oral LD 50 2830mg/kg Rat Intravenous LD 50 990mg/kg Dog Intravenous LD 50 250mg/kg

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

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Microcrystalline cellulose

Extended Release Tablets

Skin Irritation Rabbit Non-irritating Eye Irritation Rabbit Non-irritating

Ethanol

Eye Irritation Rabbit Severe

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

Hydrochlorothiazide

30 Day(s) Rat Oral 1 g/kg/day LOAEL Blood LOAEL Bladder 13 Week(s) Oral 12,500 ppm Mouse 9 Month(s) Dog Oral 50 mg/kg/day LOAEL Endocrine system 1 Year(s) Rat Oral 2000 ppm LOAEL Kidney 2 Year(s) Rat Oral 250 ppm LOAEL Kidney

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

Metoprolol Tartrate

Reproductive & Fertility Oral 430 mg/kg/day Rat **NOAEL** Fertility Embryo / Fetal Development Rat Oral 430 mg/kg/day **NOAEL** Not Teratogenic Embryo / Fetal Development Rat Oral 430 mg/kg/day LOAEL Fetotoxicity Embryo / Fetal Development Rabbit Oral 64 mg/kg/day LOAEL Fetotoxicity

Hydrochlorothiazide

Reproductive & Fertility Rat Oral 1000 mg/kg LOAEL Maternal toxicity Reproductive & Fertility 3000 mg/kg/day No effects at maximum dose Mouse Oral NOEL Oral Not Teratogenic Embryo / Fetal Development Rat 1000 mg/kg/day NOEL Embryo / Fetal Development Mouse Oral 3000 mg/kg/day NOEL Not Teratogenic

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

Metoprolol Tartrate

Bacterial Mutagenicity (Ames) Salmonella Negative with activation Chromosome Aberration Human Lymphocytes Negative Dominant Lethal Assay Mouse Negative

Hydrochlorothiazide

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vitro Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Positive

In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative

Dominant Lethal Assay Drosophila Negative

Mammalian Cell Mutagenicity Mouse Lymphoma Positive

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

Metoprolol Tartrate

2 Year(s) Rat Oral 800 mg/kg/day NOAEL Not carcinogenic 21 Month(s) Mouse Oral 750 mg/kg/day NOAEL Not carcinogenic

Hydrochlorothiazide

2 Year(s) Rat Oral 2000 ppm NOAEL Not carcinogenic

2 Year(s) Female Mouse Oral 5000 ppm NOAEL Not carcinogenic

2 Year(s) Male Mouse Oral 5000 ppm LOAEL Malignant tumors, Liver

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Carcinogen Status: Not listed as a carcinogen by IARC, NTP or US OSHA.

Povidone

IARC: Group 3

Hydrochlorothiazide

IARC: Group 3

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated.

Ethanol

Fingerling Trout LC50 24 Hours 11,200 mg/L NPDES Rainbow Trout NPDES LC50 96 Hours 12,900 mg/L Fathead minnow NPDES LC50 96 Hours 14,200 mg/L

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 Labeling: Xn

EU Indication of danger: Toxic to Reproduction; Category 3

EU Risk Phrases:

R63 - Possible risk of 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

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Canada - WHMIS: Classifications

WHMIS hazard class:

D2a very toxic materials



Metoprolol Tartrate

EU EINECS List 260-148-9

Hydrochlorothiazide

EU EINECS List 200-403-3 Inventory - United States TSCA - Sect. 8(b) Listed

Microcrystalline cellulose

EU EINECS List 232-674-9
Inventory - United States TSCA - Sect. 8(b) Listed

Purified water

EU EINECS List 231-791-2 Inventory - United States TSCA - Sect. 8(b) Listed

Hydroxypropyl methylcellulose

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

Polyethylene glycol

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

Listed

Iron oxide

EU EINECS List 215-168-2 Inventory - United States TSCA - Sect. 8(b) Listed

Paraffin

EU EINECS List 232-315-6 Inventory - United States TSCA - Sect. 8(b) Listed

Ethanol

California Proposition 65 developmental toxicity, initial date 10/1/87 (when in alcoholic

beverages)

EU EINECS List 200-578-6
Inventory - United States TSCA - Sect. 8(b) Listed

Maize starch

EU EINECS List 232-679-6
Inventory - United States TSCA - Sect. 8(b) Listed

Sodium stearylfumarate

EU EINECS List 223-781-1

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Povidone

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

Ethylcellulose

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

Lactose

EU EINECS List 200-559-2 Inventory - United States TSCA - Sect. 8(b) Listed

Sodium aluminosilicate

EU EINECS List 215-684-8
Inventory - United States TSCA - Sect. 8(b) Listed

Riboflavin (Vitamin B2)

EU EINECS List 201-507-1
Inventory - United States TSCA - Sect. 8(b) Listed

Magnesium Stearate

EU EINECS List 209-150-3 Inventory - United States TSCA - Sect. 8(b) Listed

16. OTHER INFORMATION

Prepared by: Corporate Occupational Toxicology & Hazard Assessment

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