



MATERIAL SAFETY DATA SHEET

Revision date: 02-Jan-2007

Version: 1.4

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

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ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Cetirizine HCl chewable tablets

Trade Name: Zyrtec™ chewable tablets
Chemical Family: Mixture
Intended Use: Pharmaceutical product used as antihistamine.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Beta-cyclodextrin	7585-39-9	231-493-2	*
Cetirizine hydrochloride	83881-52-1	Not listed	2.22
Colloidal silicon dioxide	7631-86-9	231-545-4	*
Microcrystalline cellulose	9004-34-6	232-674-9	*
Magnesium stearate	557-04-0	209-150-3	*

Ingredient	CAS Number	EU EINECS List	%
Pharma Sweet Flavor Powder	NOT ASSIGNED	Not listed	*
Grape flavor, artificial	NOT ASSIGNED	Not listed	*
Carmine	1328-60-5	215-527-3	*
FD & C Blue No. 2, Aluminum lake	16521-38-3	240-589-3	*
Acesulfame potassium salt	55589-62-3	259-715-3	*
Mannitol	69-65-8	200-711-8	*
Lactose NF, monohydrate	64044-51-5	Not listed	*

Additional Information: * Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATION

Appearance: Mottled purple tablet
Signal Word: WARNING

Statement of Hazard: May be harmful if swallowed.
May cause central nervous system effects

Additional Hazard Information:
Short Term:

May be harmful if swallowed. Accidental ingestion may cause effects similar to those seen in clinical use.

Known Clinical Effects: Sleepiness, dry mouth, fatigue, pharyngitis, dizziness

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EU Indication of danger: Not classified

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients 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: Wash skin with soap and water. Remove contaminated clothing and shoes. 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.

Ingestion: Get medical attention immediately. 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 immediately.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride and other chlorine-containing compounds.

Fire Fighting Procedures: Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Evacuate area and fight fire from a safe distance.

Fire / Explosion Hazards: Not determined

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

Storage Conditions: Store out of direct sunlight in a well ventilated area at room temperature.

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Conditions to Avoid: Heat, sparks, and flame
Incompatible Materials: Bases, strong oxidizers

Hazardous Decomposition Products: No data available
Polymerization: Will not occur

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)

Mannitol

Rat Oral LD50 13500 mg/kg
Mouse Oral LD50 22 g/kg

Microcrystalline cellulose

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

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg
Rat Inhalation LC50 > 2000 mg/m³

Beta-cyclodextrin

Rat Oral LD50 > 2000 mg/kg

Cetirizine hydrochloride

Rat (M) Oral LD50 703 mg/kg
Rat (F) Oral LD50 865 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.

Inhalation Acute Toxicity No data available

Ingestion Acute Toxicity See Acute toxicity table.

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

Microcrystalline cellulose

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

Beta-cyclodextrin

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

Eye Irritation / Sensitization No data available

Skin Irritation / Sensitization No data available

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

Cetirizine hydrochloride

6 Month(s) Dog Oral 8 mg/kg/day NOEL None identified
1 Month(s) Dog Oral 45 mg/kg/day NOEL None identified
6 Month(s) Rat Oral 8 mg/kg/day NOEL Liver
1 Year(s) Monkey Oral 45 mg/kg/day NOAEL None identified
1 Year(s) Dog Oral 60 mg/kg/day NOAEL None identified

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Subchronic Effects Liver toxicity of cetirizine HCl seen in rodents was considered to be predominantly the result of induction, and was transient and reversible. Similar effects were not observed in dogs or monkeys and, therefore, are thought to be species-specific.

Chronic Toxicity Chronic oral studies of cetirizine HCl revealed dose-related increases in vomiting in dogs and salivation in monkeys.

Chronic Effects/Carcinogenicity In 2-year carcinogenicity studies in rats and mice, an increase in benign liver tumors was seen in male mice at the high-dose of 16 mg/kg/day only.

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

Cetirizine hydrochloride

Reproductive & Fertility	Mouse	Oral	64 mg/kg/day	NOAEL	No effects at maximum dose
Embryo / Fetal Development	Mouse	Oral	96 mg/kg/day	NOAEL	Not Teratogenic
Embryo / Fetal Development	Rat	Oral	225 mg/kg/day	NOAEL	Not Teratogenic
Embryo / Fetal Development	Rabbit	Oral	135 mg/kg/day	NOAEL	Not Teratogenic
Peri-/Postnatal Development	Mouse	No route specified	24 mg/kg/day	NOEL	Maternal Toxicity

Reproductive Effects

No reproductive or developmental toxicity associated with cetirizine oral administration at doses up to 16 mg/kg/day was observed in mice.

Teratogenicity

No evidence of teratogenicity for cetirizine HCl was observed in mice, rats and rabbits at oral doses up to 225 mg/kg.

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

Cetirizine hydrochloride

Bacterial Mutagenicity (Ames)	Bacteria	Negative
Chromosome Aberration	Human Lymphocytes	Negative
<i>In Vivo</i> Micronucleus	Rat	Negative

Mutagenicity

No evidence of mutagenicity was observed in vivo or in vitro.

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

Cetirizine hydrochloride

2 Year(s)	Rat	Oral	20 mg/kg/day	NOEL	Not carcinogenic
2 Year(s)	Mouse	Oral	4 mg/kg/day	NOEL	Not carcinogenic, Benign tumors

Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. See below

Colloidal silicon dioxide

IARC:

Group 3

Additional Information:

FDA PREGNANCY CATEGORY B

12. ECOLOGICAL INFORMATION

Environmental Overview:

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Cetirizine hydrochloride

<i>Daphnia Magna</i>	LC50	48 Hours	14 mg/L
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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 Indication of danger: Not classified

OSHA Label:

WARNING

May be harmful if swallowed.

May cause central nervous system effects

Canada - WHMIS: Classifications

WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Beta-cyclodextrin

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	231-493-2

Carmine

Inventory - United States TSCA - Sect. 8(b)	Present
EU EINECS List	215-527-3

Colloidal silicon dioxide

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	231-545-4

FD & C Blue No. 2, Aluminum lake

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	240-589-3

Acesulfame potassium salt

Australia (AICS):	Present
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EU EINECS List	259-715-3
Mannitol	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	200-711-8
Microcrystalline cellulose	
Inventory - United States TSCA - Sect. 8(b)	XU
Australia (AICS):	Present
EU EINECS List	232-674-9
Lactose NF, monohydrate	
Australia (AICS):	Present
Magnesium stearate	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	209-150-3

16. OTHER INFORMATION

Reasons for Revision: Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard Identification. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory Information.

Prepared by: Toxicology and Hazard Communication
Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet