

Revision date: 13-Mar-2012 Version: 4.0 Page 1 of 7

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

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: pfizer-MSDS@pfizer.com Pfizer Ltd Ramsgate Road Sandwich, Kent **CT13 9NJ United Kingdom** +00 44 (0)1304 616161

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

Material Name: Azithromycin dihydrate Powder for Oral Suspension

Trade Name: ZITHROMAX®, AZENIL; AZITROCIN; ZITROMAX; ZETAMAX

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antibiotic agent

2. HAZARDS IDENTIFICATION

Appearance: White to off-white powder with a cherry-vanilla-banana odor

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

Short Term: May cause eye and skin irritation. Dust may cause irritation. Accidental ingestion may cause

effects similar to those seen in clinical use. Individuals sensitive to this chemical or other

materials in its chemical class may develop allergic reactions.

Known Clinical Effects: May cause effects similar to those seen in clinical use including transient diarrhea, nausea and

abdominal pain.

Not classified **EU Indication of danger:**

Australian Hazard Classification

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Azithromycin dihydrate	117772-70-0	Not Listed	Not Listed	9.5
Sucrose	57-50-1	200-334-9	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Spray dried artificial creme de vanilla flavor	MIXTURE	Not Listed	Not Listed	*

Material Name: Azithromycin dihydrate Powder for Oral Page 2 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

Spray dried artificial banana flavor **MIXTURE** Not Listed Not Listed Spray dried artificial cherry flavor **MIXTURE** Not Listed Not Listed Sodium phosphate tribasic, anhydrous 7601-54-9 231-509-8 Not Listed FD & C Red No. 40 25956-17-6 247-368-0 Not Listed Xanthan gum 11138-66-2 234-394-2 Not Listed Hydroxypropyl cellulose 9004-64-2 Not Listed Not Listed

Additional Information: * Proprietary

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

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Emits toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.

Fire Fighting Procedures: Wear approved positive pressure, self-contained breathing apparatus and full protective turn

out gear. Use caution in approaching fire.

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: 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.

000

Material Name: Azithromycin dihydrate Powder for Oral Page 3 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

7. HANDLING AND STORAGE

General Handling: Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and

follow appropriate grounding and bonding procedures. Minimize dust generation and accumulation. Avoid breathing dust. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled

with dust collectors, HEPA filtration systems or other equivalent controls.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Azithromycin dihydrate

Pfizer OEL TWA-8 Hr: 500µg/m³

Sucrose

ACGIH Threshold Limit Value (TWA) 10 ma/m³ 10 mg/m³ **Australia TWA** 10 mg/m³ **Belgium OEL - TWA** 10.0 mg/m³ **Bulgaria OEL - TWA** Estonia OEL - TWA 10 mg/m³ France OEL - TWA 10 mg/m³ 10 mg/m³ **Ireland OEL - TWAs** 5 mg/m^3 Latvia OEL - TWA Lithuania OEL - TWA 10 mg/m³ **OSHA - Final PELS - TWAs:** 15 mg/m³ Portugal OEL - TWA 10 mg/m³ 6 mg/m³ Slovakia OEL - TWA Spain OEL - TWA 10 mg/m³

Analytical Method: Analytical method available for Azithromycin dihydrate. Contact Pfizer Inc for further

information.

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

general ventilation should be sufficient to control airborne levels.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

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.

Material Name: Azithromycin dihydrate Powder for Oral Page 4 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Color: White to off-white

Odor: Cherry, vanilla and banana Molecular Formula: Mixture

Molecular Weight: Mixture

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical 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: The information included in this section describes the potential hazards of the individual

ingredients.

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

Sucrose

Rat Oral LD50 29.7 g/kg

Xanthan gum

Rat Oral LD50 > 5000 mg/kg

Azithromycin dihydrate

Mouse (F) Oral LD50 4000 mg/kg Mouse (M) Oral LD50 3000 mg/kg Rat Oral LD50 > 2000 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.

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

Azithromycin dihydrate

Antigenicity- Active anaphylaxis Guinea Pig Negative

Antigenicity- Passive cutaneous anaphylaxis Rabbit Negative Antigenicity- Passive cutaneous anaphylaxis Mouse Negative

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

Azithromycin dihydrate

6 Month(s) Rat 10 mg/kg/day LOEL Liver 6 Month(s) Dog Oral 10 mg/kg/day LOEL Liver 1 Month(s) Intravenous 5 mg/kg/day Rat **NOEL** Liver 1 Month(s) Intravenous 5 mg/kg/day **NOEL** Dog Liver

300

Material Name: Azithromycin dihydrate Powder for Oral Page 5 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

11. TOXICOLOGICAL INFORMATION

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

Azithromycin dihydrate

Reproductive & Fertility Rat Oral 10 mg/kg/day NOEL Fertility

Prenatal & Postnatal Development Mouse Oral 40 mg/kg/day NOEL Not Teratogenic Prenatal & Postnatal Development Rat Oral 40 mg/kg/day NOEL Not Teratogenic

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

Sucrose

Bacterial Mutagenicity (Ames) Salmonella Negative

Azithromycin dihydrate

Bacterial Mutagenicity (Ames) Salmonella Negative In Vivo Cytogenetics Mouse Lymphoma Negative

In Vitro Cytogenetics Mouse Negative

In Vitro Cytogenetics Human Lymphocytes Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: In the environment, the active ingredient in this formulation is expected to mainly reside in the

aquatic environment and slowly degrade.

Mobility, Persistence and

Degradability:

Azithromycin half life < 28 days (Aerobic Biodegredation - Water)

Bioaccumulation and Toxicity: The active ingredient in this formulation has low potential to bioaccumulate and long-term

adverse effects to aquatic organisms are not expected. See aquatic toxicity data, below.

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

Azithromycin dihydrate

Daphnia magna (Water Flea) OECD EC50 48 Hours 120 mg/L

Hyallela azteca (Freshwater Amphipod) OECD LC50 96 Hours > 120 mg/L Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours > 84 mg/L

Green Algae OECD EC50 72 Hours 0.0037 mg/L

Aquatic Toxicity Comments: A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum

dose tested.

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Azithromycin dihydrate

Aspergillus niger (Fungus) OECD MIC > 1000 mg/L
Trichoderma viride (Fungus) OECD MIC > 1000 mg/L
Clostridium perfingens (Bacterium) OECD MIC 2.0 mg/L

Bacillus subtilis (Bacterium) OECD MIC2.0 mg/L

999

Material Name: Azithromycin dihydrate Powder for Oral Page 6 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

15. REGULATORY INFORMATION

EU Indication of danger: Not classified

OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

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.

Sodium phosphate tribasic, anhydrous

CERCLA/SARA Hazardous Substances 5000 lb and their Reportable Quantities: 2270 kg Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present EU EINECS/ELINCS List 231-509-8

FD & C Red No. 40

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

Australia (AICS):

Fresent

EU EINECS/ELINCS List

247-368-0

Xanthan gum

Material Name: Azithromycin dihydrate Powder for Oral Page 7 of 7

Suspension

Revision date: 13-Mar-2012 Version: 4.0

15. REGULATORY INFORMATION

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

Australia (AICS):

EU EINECS/ELINCS List

Present
234-394-2

Sucrose

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

Australia (AICS):

REACH - Annex IV - Exemptions from the
obligations of Register:

EU EINECS/ELINCS List

Present
200-334-9

Hydroxypropyl cellulose

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

16. OTHER INFORMATION

Data Sources: Pfizer proprietary drug development information.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Prepared by: Product Stewardship Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

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. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
