RIBAVIRIN CAPSULES

Strength: 200mg. **Pack Size: 42, 56, 70, 84, 140, 168** Tablets per bottle **Revision No.:** 00

EMERGENCY OVERVIEW

RIBAVIRIN CAPSULES contain Ribaverin and excipients generally considered to be non-toxic and non-hazardous in small quantities and under conditions of normal occupational exposure.

Section 1. Identification of the substance

Identification of the product

Product name: Ribaverin Capsules

Formula: C8H12N4O5

Chemical Name: 1-B-D-ribofuranosyl- 1 H-1,2,4-triazole-3-carboxamide

Therapeutic Category A nucleoside analogue with antiviral activity.

Manufacturer / supplier identification

Company: Cadila Healthcare Ltd. Ahmedabad, India

Contact for information: Tel.: +91 79 6868100 Fax: +91 79 3750319

Emergency telephone No. Tel.: +91 79 6868100

Section 2. Composition / information on ingredients

Component	Exposure Limit	CAS No.
Principle Component :		
Ribavirin	Not Found	36791-04-5
Inactive Ingredients:		
crospovidone	Not Found	9003-39-8
magnesium stearate	Not Found	557-04-0
microcrystalline cellulose	Not Found	9004-34-6
povidone	Not Found	9003-39-8
silicon dioxide	Not Found	7621-86-9
Capsule Shell		
Gelatin	Not Found	9000-70-8
Titanium dioxide.	Not Found	13463-67-7

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Section 3. Health Hazards Information

Dose and Administration

INTRON A Injection should be administered subcutaneously and ribavirin capsules should be administered orally. Ribavirin capsules may be administered without regard to food, but should be administered in a consistent manner

Body Weight	Ribavirin Capsules	INTRON A Injection
=75 kg	2 times 200 mg capsules AM,	3 million IU
	3 times 200 mg capsules PM daily p.o.	3 times weekly s.c.
>75 kg	3 times 200 mg capsules AM, 3 times 200 mg capsules PM daily p.o.	3 million IU 3 times weekly s.c.

Adverse Effects

The primary toxicity of ribavirin is hemolytic anemia. Reductions in hemoglobin levels occurred within the first 1 to 2 weeks of oral therapy.

Cardiac and pulmonary events associated with anemia occurred in approximately 10% of patients.

Ribavirin capsules/INTRON A Combination Therapy:

In general, the selected treatment-emergent adverse events were are as under:

General Disorders

Headache, Fatigue, Rigors, Fever, Influenza-like symptoms ,Asthenia, Chest pain.

Central & Peripheral Nervous System Disorders

Dizziness

Gastrointestinal System Disorders

Nausea, Anorexia, Dyspepsia, Vomiting.

Musculoskeletal System Disorders

Myalgia, Arthralgia, Musculoskeletal pain,

Psychiatric Disorders

Insomnia, Irritability, Depression, Emotional lability, Concentration impaired, Nervousness.

Respiratory System Disorders

Dyspnea, Sinusitis,

Skin & Appendages Disorders

Alopecia, Rash, Pruritus, Special Senses,

Other Disorders

In addition, the following spontaneous adverse events have been reported during the marketing surveillance of ribavirin capsules/INTRON A therapy: hearing disorder and vertigo.

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Over Dose Effect There is limited experience with overdosage. Acute ingestion of up to 20 grams

of ribavirin capsules, up to 10 times the recommended doses have been

reported.

Contraindications Combination ribavirin capsules/INTRON A therapy is contraindicated in females

> who are pregnant and in the male partners of females who are pregnant. Extreme care must be taken to avoid pregnancy during therapy and for 6 months after completion of treatment in female patients, and in female partners of male patients who are taking combination ribavirin

capsules/INTRON A therapy

Ribavirin capsules monotherapy is not effective for the treatment of chronic

hepatitis C and should not be used for this indication.

Patients with persistently severe or worsening signs or sympoms

of these conditions should be withdrawn from therapy. In many but not all

cases these disorders resolve after stopping INTRON A therapy.

Ribavirin produced significant embryocidal and/or teratogenic effects in all **Pregnancy Comments**

animal species in which adequate studies have been conducted. Malformations of the skull, palate, eye, jaw, limbs, skeleton, and gastrointestinal tract were noted. The incidence and severity of teratogenic effects increased with

escalation of the drug dose. Survival of fetuses and offspring was reduced.

Pregnancy Category X

Section 4. First aid measures

General Remove from exposure. Remove contiminated Clothing. Person devloping

serious hypersensitivity reaction must receive medical attention

Overdose Treatment There is no specific antidote for INTRON A or ribavirin capsules, and

hemodialysis and peritoneal dialysis are not effective treatment of overdose of

either agent.

Fire - fighting measures Section 5.

Flash point **Upper Flammable** Not Found Not Found

Limit:

Not Found Lower Flammable Not Found **Auto-Ignition**

Temperature: Limit:

surrounding fire and

Extinguishing Water Spray, dry Media

material.

chemical, carbon dioxide Hazard to be combustible.

or foam as appropriate for As with all dry powders it is

Fire and Explosion

advisable to ground mechanical equipment in contact with the dry material to dissipate the potential build up of static

This material is assumed

electricity.

Fire Fighting As with all fires, evacuate personnel to a safe area. Fire fighter should use self-

Procedure contained breathing equipment and protective clothing.

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Section 6. Storage / Spill / Disposal Measures

Storage Keep bottle tightly closed.

Store at 25°C (77°F); excursions permitted to 15°C- 30°C (59°- 86°F).

Spill Response Wear approved respiratory protection, chemically compatible gloves and protective

clothing. Wipe up spillage or collect spillage using high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labelled container for disposal.

Wash spill site.

Disposal Dispose the waste in accordance with all applicable Federal, State and local laws.

Section 7. Exposure controls and personal protection

Respiratory Protection Protection from inhalation is not normally necessary. If ventilation is inadequate or

dust is likely to generate, use of suitable dust mask would be appropriate.

Skin Protection Skin protection is not normally necessary, however it is good practice to avoid contact

with chemical to use suitable gloves when handling.

glasses. Wash hands prior to touching eye and in particular handling contact lenses.

Protective Clothing Protective clothing is not normally necessary, however it is good practice to use

apron.

Section 8. Physical and chemical properties

Appearance Ribavirin capsules, 200 mg are white to off-white granular powder filled in size '0'

hard gelatin capsules with white colored cap printed with "ZA-12" in black ink and

white colored body printed with "200mg" in black ink

Odour Odourless Melting Point No Data Available

Solubility in water No Data Available Vapour density No Data Available

Boiling point No Data Available **Evaporation rate** No Data Available

Evaporation rate No Data Available Specific gravity No Data Available

Reactivity in water No Data Available Vapour pressure No Data Available

% Volatile by volume No Data Available

Other information The molecular formula of Ribavirin is C8H12N4O5 and the molecular weight is 244.2.

Ribavirin is a white crystalline powder. It is freely soluble in water and slightly soluble in anhydrous alcohol. Ribavirin tablet is available as a light pink to pink, round,

biconvex, beveled, film-coated tablet for oral administration.

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Section 9. Physical Hazards

Condition to avoid

Avoid exposure to extreme heat, light and moisture.

Stable

Stable under normal ambient and

anticipated storage and handling

conditions.

Decomposition

Products

No Data Available

Hazardous Reaction

No data available.

Incompatibilities No data available.

Section 10. Toxicological information

Handling of formulated product is not expected to cause any toxicological affects. The data pertains to the ingredient in formulations, rather than this specie formulation.

Target organ Eye contact, Skin contact and inhalation is not great risk as this product is tablet.

other

Long-term studies in the mouse and rat (18 to 24 months; doses of 20 to 75 and 10 to 40mg/kg/day, respectively [estimated human equivalent doses of 1.67 to 6.25 and 1.43 to 5.71 mg/kg/day, respectively, based on body surface area adjustment for a 60 kg adult; approximately 0.1 to 0.4 times the maximum human 24-hour dose of ribavirin]) have demonstrated a relationship between chronic ribavirin exposure and increased incidences of vascular lesions (microscopic hemorrhages) in mice. In rats, retinal degeneration occurred in controls, but the incidence was increased in ribavirin-treated rats.

Section 11. Ecological information

No data available on Ecotoxicity

Section 12. Other information

None

Date of issue: 29/08/05 Supersedes edition of: New Edition

The information contained herein is based on the state of our knowledge. It Characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.