

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Ribavirin
PRODUCT NUMBER: R795

COMPANY INFO: PhytoTechnology Laboratories®

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H360 – Reproductive toxicity (Category 1B)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Danger

Hazard Statements: H360 – May damage fertility or the unborn child.

Precautionary Statements:

P202 – Do not handle until all safety precautions have been read and understood. P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 – IF exposed or concerned: Get medical attention/advice.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1-β-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide; Virazole

CAS No: 36791-04-5Formula: $C_8H_{12}N_4O_5$ Molecular Weight: 244.2

Ingredient	CAS Number	Purity	Hazardous
Ribavirin	36791-04-5	>98.9 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry Symptoms First Aid Procedures

Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything

by mouth to an unconscious person. Get medical attention.

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Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15

May cause redness, tearing, or

blurred vision.

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation**

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Protect from moisture.

Recommended Storage Temperature: 2 to 6 °C

Incompatibilities: Strong oxidizing agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs):

No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

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Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Wear appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH (0.050 g/L): Under Development (4.5 - 6.5 suspected range)

Solubility: Soluble in Water Melting Range: 166-176 °C

Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available

Odor: Odorless

Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available
Initial Boiling Point and
No data available

Boiling Range:

No data available

Flammability (solid, gas):
Partition coefficient:

n-octanol/water):

No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Dust generation, moist air Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 2700

LD₅₀ (IV-Rat)(mg/Kg): No data available

 LD_{50} (IP-Mouse)(mg/Kg): 1300

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: Presumed human reproductive toxicant

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Symptoms Associated with

Overexposure:

Irritation, itching, gastrointestinal upset, nausea, headache, vomiting, possible mutagenic and reproductive effects, breathing difficulties, cardiac problems, anemia, muscular problems, eye and

ear problems, possible kidney or liver impairment

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Stomach

Medical Conditions

Pre-existing conditions

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: XZ4250000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No Section 313 Ingredients: No

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Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 36791-04-5 Ribavirin New Jersey Right to Know Components: CAS No.: 36791-04-5 Ribavirin

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	*	0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard

^{*}Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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