

1. Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Code RM9136 Product Name Ribavirin

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency Tel. No.

Emergency Tel.No. Please contact the regional HiMedia representation in your country

2. Hazards Identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Reproductive toxicity (Category 1A, 1B)

Classification according to EU Directives 67/548/EEC or 1999/45/EC May cause harm to the unborn child.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word Danger

Hazard Statement(s) H360 May damage fertility or the unborn child

Precautionary Statement(s)P201Obtain special instructions before use.P308 + P313IF exposed or concerned: Get medical advice/attention.

According to European Directive 67/548/EEC as amended.





R-Phrase(s)

R61 May cause harm to the unborn child.

S-Phrase(s)

- S53 Avoid exposure obtain special instructions before use.
- S22 Do not breathe dust.
- S45 In case of accident or if you feel unwell,seek medical advice immediately (show the label where possible).

3. Composition/Information on Ingredients

3.1 Substances

Synonym : 1-â-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide; Vitrazole

Molecular Formula	$\texttt{C}_{8}\texttt{H}_{12}\texttt{N}_{4}\texttt{O}_{5}$
Molecular Weight.	244.20

Component		Concentration
Ribavirin		
CAS-No.	36791-04-5	

4. First Aid Measures

- 4.1 Description of first aid measures
 - General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed

No data available

5. Fire Fighting Measures

5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx)

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information No data available

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**

For disposal see Section 13.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.3 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : Store at 2 - 8°C

7.3 Specific end uses

No data available

8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work place.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls

Do not empty into drains

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Odour Odour Threshold Odour Threshold pН Melting/freezing point Initial boiling point and boiling range Flash point Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Water Solubility Partition coefficient: n-octanol/Water Autoignition Temperature **Decomposition** Temperature Viscositv Explosive properties Oxidizing properties

White to white with a yellow cast powder No data available No data available

9.2 Other safety information

No data available

10 Stability and Reactivity

- 10.1 Reactivity
 - No data available
- **10.2 Chemical stability** No data available
- **10.3 Possibility of hazardous reactions** No data available
- **10.4** Conditions to avoid No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available

11 Toxicological Information

11.1 Information on toxicoligical effects Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available **Respiratory or skin sensitisation** No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than oregula to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity- single exposure No data available Aspiration hazard No data available

Potential Health Effects Inhalation.

Refer Section 2 Skin Refer Section 2 Eyes Refer Section 2 Ingestion Refer Section 2

Additional Information RTECS : XZ4250000

12 Ecological Information

12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- 12.5 PBT and vPvB assessment No data available
- **12.6 Other adverse effects** No data available

13 Disposal Considerations

13.1 Waste treatments methods

Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN-No.

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID	: no dangerous goods
IMDG	: no dangerous goods
IATA	: no dangerous goods

- 14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: -
- **14.4 Packaging group** ADR/RID: - IMDG: - IATA: -
- 14.5 Environmental hazards ADR/RID: No IMDG: Marine Pollutant:No IATA: No

14.6 Special precautions for use

No data available

15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No.1907/2006

- **15.1 Safety health and environment regulations/legislation specific for the substance or mixture** No data available
- 15.2 Chemical Safety Assessment

16 Other Information

Further information

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