

according to GB/T 16483 and GB/T 17519

Ribavirin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	402740-00020	Date of first issue: 2015/12/10

1. PRODUCT AND COMPANY IDENTIFICATION

Product name :	:	Ribavirin Liquid Formulation				
Manufacturer or supplier's details						
Company	:	MSD				
Address	:	199 Wenhai North Road HEDA, Hangzhou - Zhejiang Province - CHINA 310018				
Telephone :	:	908-740-4000				
Emergency telephone number :	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use : Restrictions on use :	:	Pharmaceutical Not applicable				

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid clear No data available				
	Suspected of causing genetic defects. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.					
GHS Classification						
Germ cell mutagenicity	:	Category 2				
Reproductive toxicity	:	Category 1B				
Specific target organ toxicity - repeated exposure	:	Category 2				
GHS label elements						
Hazard pictograms	:					
Signal word	:	Danger				

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Hazard	statements	:	H341 Suspected	of causing genetic defects.
		·	H360Df May dam fertility.	age the unborn child. Suspected of damaging damage to organs through prolonged or re-
Precaut	tionary statements	:	P202 Do not hand and understood. P260 Do not brea	cial instructions before use. dle until all safety precautions have been read the mist or vapours. ctive gloves/ protective clothing/ eye protec- on.
			Response: P308 + P313 IF e attention.	exposed or concerned: Get medical advice/
			Storage: P405 Store locke	d up.
			Disposal: P501 Dispose of disposal plant.	contents/ container to an approved waste

Physical and chemical hazards

Not classified based on available information.

Health hazards

Suspected of causing genetic defects. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 30 -< 50
Ribavirin	36791-04-5	>= 1 -< 10

4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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	inhale n case	ed of skin contact	:	advice. If inhaled, remove Get medical atten In case of contact of water. Remove contamin Get medical atten	tion. , immediately flush skin with soap and plenty nated clothing and shoes. tion.	
		of eye contact	:	Flush eyes with w Get medical atten	shoes before reuse. ater as a precaution. tion if irritation develops and persists.	
M		portant symptoms ects, both acute and	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Suspected of causing genetic defects. May damage the unborn child. Suspected of damaging fertil ty. May cause damage to organs through prolonged or repeate		
		on of first-aiders o physician	:	 exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). 		
5. FIR	5. FIREFIGHTING MEASURES					
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Insuita nedia	ble extinguishing	:	None known.		
	specific ghting	hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.	
	lazard cts	ous combustion prod-	:	Carbon oxides		
	specific ds	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
		protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.	

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Handling	
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	: Oxidizing agents



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Storage

Conditions for safe storage Materials to avoid		Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sucrose	57-50-1	TWA	10 mg/m3	ACGIH
Ribavirin	36791-04-5	Wipe limit	400 µg/100 cm ²	Internal
		TWA	40 µg/m3 (OEB 3)	Internal

Engineering measures	 Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipme	ent
Respiratory protection	: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	: Combined particulates and organic vapour type
Eye/face protection	 Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hand protection	



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Ма	terial	: Chemical-resist	ant gloves
	marks ne measures	eye flushing sys ing place. When using do Wash contamina The effective op engineering con appropriate deg	nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. teration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4.8 - 5.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available

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Densi	ity	: No data availa	able
	ility(ies) ater solubility	: No data availa	able
	ion coefficient: n- ol/water	: Not applicable	9
	ignition temperature	: No data availa	able
Deco	mposition temperature	: No data availa	able
Visco Vis	sity scosity, kinematic	: No data availa	able
Explo	sive properties	: Not explosive	
Oxidiz	zing properties	: The substance	e or mixture is not classified as oxidizing.
	le characteristics le size	: Not applicable	
0. STABI	LITY AND REACTIVIT	Y	
Possi	tivity nical stability bility of hazardous reac	: Stable under r	as a reactivity hazard. normal conditions. n strong oxidizing agents.
Incom	itions to avoid npatible materials rdous decomposition icts	None known.Oxidizing ageNo hazardous	nts decomposition products are known.
1. TOXIC	OLOGICAL INFORMA	TION	
Expos	sure routes	: Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	able information.	
Produ	uct:		
Acute	oral toxicity	: Acute toxicity e Method: Calcu	estimate: > 5,000 mg/kg lation method
<u>Com</u>	oonents:		
Sucro			
Acute	oral toxicity	: LD50 (Rat): 29),700 mg/kg
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II

Ribavirin:

Acute oral toxicity	:	LD50 (Rat): 4,116 - 5,584 mg/kg
		LD50 (Mouse): > 10,000 mg/kg
		LD50 (Dog): >= 1,500 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Acute toxicity (other routes of administration)	:	LD50 (Rat): 1,554 - 1,758 mg/kg Application Route: Intraperitoneal
		LD50 (Mouse): 1,268 mg/kg Application Route: Intraperitoneal

Skin corrosion/irritation

Not classified based on available information.

Components:

Ribavirin:

Remarks

: No data available May irritate skin.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Ribavirin:

Remarks

: No data available May irritate eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ribavirin:

Remarks

: No data available

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Germ cell mutagenicity

Suspected of causing genetic defects.

Components:

~		
511	crose:	
Ju	crose.	

Juci 036.		
Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Result: negative
Ribavirin:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: Rodent cell line Result: positive
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
Genotoxicity in vivo	:	Test Type: dominant lethal test Species: Rat Result: negative
		Test Type: Mouse Lymphoma Species: Mouse Result: positive
		Test Type: Micronucleus test Species: Mouse Result: positive
Germ cell mutagenicity - Assessment	:	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.

Carcinogenicity

Not classified based on available information.

Components:

Ribavirin:

Species	:	Mouse
Application Route	:	Oral
Exposure time	:	6 Months
LOAEL	:	75 mg/kg body weight
Result	:	negative
Target Organs	:	Blood, Testes
Remarks	:	The mechanism or mode of action may not be relevant in hu-
Species Application Route Exposure time LOAEL Result Target Organs Remarks		mans.



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Species Application Route Exposure time NOAEL Result Remarks	 Rat Oral 2 Years 10 mg/kg body weight negative The mechanism or mode of action may not be relevant in humans.
Species Application Route Exposure time Result Remarks	 Mouse Oral 18 Months negative The mechanism or mode of action may not be relevant in humans.

Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.

Components:

Ribavirin:

Effects on fertility	: Test Type: Fertility Species: Rat, male Application Route: Intraperitoneal injection Fertility: LOAEL: < 20 mg/kg body weight Symptoms: Reduced fertility Result: positive
	Test Type: Fertility Species: Mouse, male Application Route: Oral Fertility: LOAEL: 35 mg/kg body weight Symptoms: Reduced fertility Result: positive
	Test Type: Fertility Species: Rat, females Application Route: Oral Fertility: NOAEL: 10 mg/kg body weight Result: Animal testing did not show any effects on fertility.
	Test Type: Fertility Species: Rat, male Application Route: Oral Fertility: NOAEL: 160 mg/kg body weight Result: Animal testing did not show any effects on fertility.
Effects on foetal develop- ment	: Test Type: Development Species: Rat, female Application Route: Oral

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		Symptoms: Red fetuses, Skeleta	Toxicity: LOAEL: <= 1 mg/kg body weight duced body weight, Reduced number of viable al malformations toxic effects and adverse effects on the off- rected.
		Developmental Symptoms: Rec	t, female ute: Oral y Maternal: LOAEL: 1 mg/kg body weight Toxicity: LOAEL: 1 mg/kg body weight duced body weight, Skeletal malformations toxic effects and adverse effects on the off-
		Symptoms: Ske / resorption rate	ter ute: Oral Toxicity: LOAEL: 2.5 mg/kg body weight eletal and visceral variations, Total Resorptions e toxic effects and adverse effects on the off-
		Species: Rat Application Rou General Toxicit Embryo-foetal t	y Maternal: NOAEL: 0.3 mg/kg body weight oxicity: LOAEL: 1 mg/kg body weight eletal malformations
Repro sessm	ductive toxicity - As- nent	fertility, based o	e of adverse effects on sexual function and on animal experiments., Clear evidence of ad- n development, based on animal experiments.
	- single exposure		
	assified based on avail conents:	able information.	
Ribav			
Asses		: May cause resp	biratory irritation.
May c	- repeated exposure ause damage to organ	s through prolonged o	or repeated exposure.
<u>Comp</u>	oonents:		
Ribav Expos	r irin: sure routes	: Ingestion	
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	et Organs ssment	 Blood Causes damage to organs through prolonged or repeated exposure. 	ł
Repe	ated dose toxicity		
Com	ponents:		
Ribay	virin:		
		 Monkey 30 mg/kg 10 d Blood, Gastrointestinal tract 	
Expo		: Rat : 7.6 mg/kg : Inhalation : 90 d : Blood, Lungs	
Expo		 Dog 5 mg/kg Oral 1 yr Blood, Gastrointestinal tract 	
Expo		 Mouse 20 mg/kg Oral 18 Months Blood, Cardio-vascular system 	
-	ration toxicity lassified based on ava	able information.	
Expe	rience with human e	oosure	
<u>Com</u>	ponents:		
	ation contact contact	 Symptoms: Headache, Dizziness Remarks: Based on Human Evidence Remarks: May cause eye irritation. Based on Human Evidence Remarks: May cause eye irritation. Based on Human Evidence Symptoms: blood effects, immune system effects, anorexi Dizziness, insomnia, Fatigue, Headache, Itching, Rash, liv 	
Inges	tion		

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ribavirin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 119 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 117 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 119 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 6.9 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Sucrose:

Partition coefficient: n- octanol/water	:	Pow: < 1
Ribavirin:		
Partition coefficient: n- octanol/water	:	log Pow: 0.971
Mobility in soil		
No data available		
Other adverse effects		
No data available		



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable Not applicable

0.000	
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	: Not applicable
Proper shipping name	: Not applicable



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Pack Labe	idiary risk ing group	 Not applicable Not applicable Not applicable Not applicable no 	
-	ial precautions for u	ser	
	ILATORY INFORMAT		
Law		d Control of Occupation	
	Ilations on Safety Ma logue of Hazardous Cl	nagement of Hazardou nemicals	 S Chemicals This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination.
ldent 1821		rd Installations for Haza	rdous Chemicals (GB : Not listed
Haza SAW		Priority Management und	er : Not listed
	Ilations on Labour Program of Highly Toxic (•	s where Toxic Substances are Used : Not listed
and	Export of Toxic Chen	nicals	e First Import of Chemicals and the Import
	a Severely Restricted Export	Toxic Chemicals for Imp	ort : Not listed
-		istration of Precursor (on of Precursor Chemica	
Yang	stze River Protection	Law	
This	product does not conta	ain any dangerous chem	icals prohibited for inland river transport.
The of AICS	• •	roduct are reported in : not determined	the following inventories:
DSL		: not determined	
IECS	C	: not determined	



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16. OTHER INFORMATION

Revision Date	:	2024/09/28			
Further information					
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Items where changes have been made to the previous version are highlighted in the body of this					

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH / TWA	:	8-hour, time-weighted average			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory: TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System



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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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