



Versi 3.1	ion	Revision Date: 2023/09/30		S Number: 2747-00019	Date of last issue: 2023/04/04 Date of first issue: 2015/12/10		
1. PF	RODUC	CT AND COMPANY ID	ENT	IFICATION			
	Produc	ct name	:	Ribavirin Liquid	Formulation		
	Manuf	acturer or supplier's o	detai	ils			
	Compa	any	:	MSD			
	Addres	SS	:	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065			
	Teleph	one	:	908-740-4000			
	Emerg	ency telephone number	r :	1-908-423-6000			
	E-mail	address	:	EHSDATASTEV	VARD@msd.com		
	Recon	nmended use of the cl	hem	ical and restricti	ons on use		
		nmended use tions on use	:	Pharmaceutical			
	Restric		•	Not applicable			
2. HA	AZARD	S IDENTIFICATION					
	GHS C	lassification					
	Germ	cell mutagenicity	:	Category 2			
	Reproc	ductive toxicity	:	Category 1B			
Specific target organ toxicity -		:	Category 2 (Bloc)			

GHS label elements

repeated exposure (Oral)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H341 Suspected of causing genetic defects. H360Df May damage the unborn child. Suspected of damaging fertility. H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	Prevention:

P201 Obtain special instructions before use.





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P202 Do not handle until all safety precautions have been read and understood.P260 Do not breathe mist or vapours.P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 30 -< 60
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- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of causing genetic defects. May damage the unborn child. Suspected of damaging fertili- ty.



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	otection of first-aiders ites to physician	:	exposure if swallo First Aid responde and use the recor when the potentia	ge to organs through prolonged or repeated wed. ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.		
5. FIRE	FIGHTING MEASURES					
Su	itable extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
me	suitable extinguishing edia ecific hazards during fire-	:	None known. Exposure to comb	pustion products may be a hazard to health.		
	hting zardous combustion prod- ts	:	Carbon oxides			
	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.			
	ecial protective equipment firefighters	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.			
6. ACC	IDENTAL RELEASE MEAS	SUF	RES			
tiv	rsonal precautions, protec- e equipment and emer- ncy procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
En	vironmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages		
	ethods and materials for ntainment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c	a absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable.		



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			d 15 of this SDS provide information regarding national requirements.				
7. HANDL	ING AND STORAGE						
Techr	nical measures		ig measures under EXPOSURE ERSONAL PROTECTION section.				
Local/	Total ventilation	: If sufficient vent ventilation.	If sufficient ventilation is unavailable, use with local exhaust				
Advice on safe handling		: Do not get on s Do not breathe Do not swallow Avoid contact w Wash skin thord Handle in accor practice, based sessment Keep container Do not eat, drin	mist or vapours. vith eyes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as-				
Condi	tions for safe storage	Store locked up Keep tightly clo					
Mater	ials to avoid		th the following product types:				

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	Sucrose 57-50-1		10 mg/m3	ID OEL		
	Further information: Not classified as carcinogenic to humans. Not enough data to classify these materials as carcinogenic to humans or animals					
		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



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Perso	onal protective equip	oment		
Respi	iratory protection	:	sure assessme ommended gu	al exhaust ventilation is not available or expo ent demonstrates exposures outside the rec- idelines, use respiratory protection. iculates and organic vapour type
	protection	-		
Ма	aterial	:	Chemical-resis	tant gloves
	emarks protection	:	If the work env mists or aerose Wear a facesh	le gloving. asses with side shields or goggles. ironment or activity involves dusty conditions ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or
Skin a	and body protection	:	Additional body task being per posable suits)	or laboratory coat. y garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis to avoid exposed skin surfaces. te degowning techniques to remove potential clothing.
Hygie	ne measures	:	If exposure to eye flushing sy ing place. When using do Wash contami The effective of engineering co appropriate de industrial hygie	chemical is likely during typical use, provide rstems and safety showers close to the work o not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.

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

SAFETY DATA SHEET



Ribavirin Liquid Formulation

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	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available)
	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.



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	npatible materials rdous decomposition ucts	:	Oxidizing agen No hazardous o	s decomposition products are known.
τοχις	OLOGICAL INFORMAT	101	N	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity		· • .	
Not c Prod	lassified based on availa	ble	information.	
	e oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
<u>Com</u>	ponents:			
Sucr				
Acute	e oral toxicity	:	LD50 (Rat): 29,	700 mg/kg
Riba	virin:			
Acute	e oral toxicity	:	LD50 (Rat): 4,1	l6 - 5,584 mg/kg
			LD50 (Mouse):	> 10,000 mg/kg
			LD50 (Dog): >=	1,500 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	e dermal toxicity	:	Remarks: No da	ta available
	e toxicity (other routes of nistration)	:	LD50 (Rat): 1,59 Application Rou	54 - 1,758 mg/kg te: Intraperitoneal
			LD50 (Mouse): Application Rou	1,268 mg/kg te: Intraperitoneal
-	corrosion/irritation lassified based on availa	ble	information.	
Com	ponents:			
Riba v Rema		:	No data availab May irritate skin	

Not classified based on available information.



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<u>Com</u>	ponents:			
Riba	virin:			
Rema	arks	:	No data available May irritate eyes.	
Resp	piratory or skin sens	itisatio	n	
-	sensitisation	ailable	information.	
-	biratory sensitisation classified based on avai		information.	
Com	ponents:			
Riba Rema		:	No data available	
	n cell mutagenicity ected of causing gene	etic def	ects.	
Com	ponents:			
Sucr				
Geno	otoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Riba	virin:			
Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Test system: Roo Result: positive	o mammalian cell gene mutation test lent cell line
			Test Type: Chron Test system: Hun Result: negative	nosomal aberration nan lymphocytes
Geno	otoxicity in vivo	:	Test Type: domin Species: Rat Result: negative	ant lethal test
			Test Type: Mouse Species: Mouse Result: positive	e Lymphoma
			Test Type: Micror Species: Mouse Result: positive	nucleus test





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	n cell mutagenicity - ssment	: Positive res genicity test	ult(s) from in vivo mammalian somatic cell muta- s.
Carci	inogenicity		
	lassified based on ava	ilable information.	
Com	ponents:		
Ribay	virin:		
Expo LOAE Resu	cation Route sure time EL It et Organs	: Mouse : Oral : 6 Months : 75 mg/kg bo : negative : Blood, Test : The mechan mans.	
	cation Route sure time EL It	: Rat : Oral : 2 Years : 10 mg/kg bo : negative : The mechar mans.	ody weight nism or mode of action may not be relevant in hu
	cation Route sure time It	: Mouse : Oral : 18 Months : negative : The mechar mans.	nism or mode of action may not be relevant in hu
Repr	oductive toxicity		
May o	damage the unborn ch	ild. Suspected of d	amaging fertility.
<u>Com</u>	ponents:		
Riba v Effect	virin: ts on fertility	Fertility: LO	at, male Route: Intraperitoneal injection AEL: < 20 mg/kg body weight Reduced fertility
			buse, male



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		Result: Animal Test Type: Fer	tility emales ute: Oral :L: 10 mg/kg body weight testing did not show any effects on fertility. tility				
Effects on foetal develop- ment		 Test Type: Development Species: Rat, female Application Route: Oral Developmental Toxicity: LOAEL: <= 1 mg/kg body we Symptoms: Reduced body weight, Reduced number fetuses, Skeletal malformations Result: Embryotoxic effects and adverse effects on th spring were detected. 					
		Developmenta Symptoms: Re	it, female ute: Oral ty Maternal: LOAEL: 1 mg/kg body weight I Toxicity: LOAEL: 1 mg/kg body weight duced body weight, Skeletal malformations btoxic effects and adverse effects on the off-				
		Symptoms: Sk / resorption rat	ster ute: Oral I Toxicity: LOAEL: 2.5 mg/kg body weight eletal and visceral variations, Total Resorptions e btoxic effects and adverse effects on the off-				
		Species: Rat Application Ro General Toxici Embryo-foetal	ty Maternal: NOAEL: 0.3 mg/kg body weight toxicity: LOAEL: 1 mg/kg body weight eletal malformations				
Repro sessn	oductive toxicity - As- nent	fertility, based	e of adverse effects on sexual function and on animal experiments., Clear evidence of ad- n development, based on animal experiments.				



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STOT	- single exposure			
	assified based on av	ailable	information.	
<u>Comp</u>	oonents:			
Ribay	/irin:			
Asses	ssment	:	May cause res	piratory irritation.
	- repeated exposu			
		ans (B	lood) through pro	blonged or repeated exposure if swallo
Comp	oonents:			
Ribay	virin:			
	sure routes	:	Ingestion	
	et Organs ssment		Blood Causes damac	e to organs through prolonged or repe
		·	exposure.	
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Ribav	/irin:			
Speci		:	Monkey	
	:L sure time	:	30 mg/kg 10 d	
	et Organs	:	Blood, Gastroii	ntestinal tract
Speci		:	Rat	
NOAE		:	7.6 mg/kg Inhalation	
	cation Route sure time		90 d	
	et Organs	:	Blood, Lungs	
Speci		:	Dog	
NOAE		:	5 mg/kg	
	cation Route sure time	:	Oral 1 yr	
	et Organs	:	Blood, Gastroir	ntestinal tract
Speci	es	:	Mouse	
NOAE		:	20 mg/kg	
	cation Route sure time	:	Oral 18 Months	
	et Organs	:		vascular system
	game	•	2.000, 00.00	

Not classified based on available information.



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Expe	rience with human ex	posu	ire	
Comp	oonents:			
Ribay	virin:			
Inhala	ation	:		idache, Dizziness
Skin d	contact	:	Remarks: May of	d on Human Evidence cause eye irritation.
Eve c	ontact		Based on Huma Remarks: May	an Evidence cause eye irritation.
-		•	Based on Huma	an Evidence
Inges	tion	:	Dizziness, insor	od effects, immune system effects, anorexia, nnia, Fatigue, Headache, Itching, Rash, live , Gastrointestinal disturbance
ECOL	OGICAL INFORMATIC	DN		
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Ribay	virin:			
Toxici	ity to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 119 mg/l 96 h
	ity to daphnia and othe	r:		magna (Water flea)): > 117 mg/l
aquat	ic invertebrates		Exposure time: Method: OECD	48 h Test Guideline 202
	ity to algae/aquatic	:	,	irchneriella subcapitata (green algae)): > 11
plants	3		mg/l Exposure time:	96 h
				Test Guideline 201
			NOEC (Pseudo	kirchneriella subcapitata (green algae)): 6.9
			mg/l Exposure time:	96 h
				Test Guideline 201
Toxici	ity to microorganisms	:	EC50: > 1,000 r	na/l
	,		Exposure time:	3 ĥ
				piration inhibition Test Guideline 209
Persi	stence and degradab	ility		
No do				
No da Bioac				
Bioad	ita available ccumulative potential ponents:			



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	ion coefficient: n- ool/water	: Pow: < 1		
	virin: ion coefficient: n- iol/water	: log Pow: 0.971		
	lity in soil ata available			
• • • • •	r adverse effects ata available			
13. DISPO	OSAL CONSIDERATI	ONS		
Disp	osal methods			
Wast	e from residues		e of waste into sewer. accordance with local regulations.	

	Dispose of in accordance with local regulations.
:	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

Labels

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

Not applicable

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EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Glycerine
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

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F	Further	· information			
c		s of key data used to the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
[Date for	rmat	:	yyyy/mm/dd	
F	Full text of other abbreviations				
-	ACGIH ID OEL		:		eshold Limit Values (TLV) ational Exposure Limits
-	ACGIH ID OEL		:	8-hour, time-weighted average Long term exposure limit	

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

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





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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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