

SAFETY DATA SHEET

Creation Date 24-Aug-2015

Revision Date 28-Dec-2021

Revision Number 4

1. Identification

Product Name

Ribavirin

Cat No. : AC46048000; AC460480010; AC460480050; AC460480250

CAS No Synonyms

36791-04-5 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive Toxicity

Category 1B

Label Elements

Signal Word Danger

Hazard Statements May damage fertility or the unborn child



Precautionary Statements

Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required **Response** IF exposed or concerned: Get medical attention/advice **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> None identified WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component		CAS No	Weight %
Ribavirin		36791-04-5	>95
	4.	First-aid measures	
General Advice If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention symptoms occur.		of water. Get medical attention if
Most important symptoms and effects	None reasonably foreseeable.		
Notes to Physician	Treat sympto	matically	

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health	Flammability	Instability	Physical hazards	
0	1	0	N/A	
	6. Accidental re	lease measures		
Personal Precautions	Ensure adequate ventilation	on. Use personal protective equip	oment as required. Avoid dust	
Environmental Precautions		nal Ecological Information. Shoul	d not be released into the	
Methods for Containment and Cl Up	ean Sweep up and shovel into containers for disposal.	suitable containers for disposal.	Keep in suitable, closed	
	7. Handling	and storage		
Handling		equipment/face protection. Ensur clothing. Avoid ingestion and inh		
Storage.		eed in a dry and well-ventilated pl patible Materials. Oxidizing agen	ace. To maintain product quality: t.	
8. Exposure controls / personal protection				
Exposure Guidelines		tain any hazardous materials witl gion specific regulatory bodies.	n occupational exposure	
Engineering Measures	Ensure adequate ventilation	on, especially in confined areas.		
Personal Protective Equipment				
Eye/face Protection		ve eyeglasses or chemical safety ection regulations in 29 CFR 191		
Skin and body protection	Wear appropriate protecti	ve gloves and clothing to prevent	skin exposure.	
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR 19 SHA or European Standard EN 14 ded or if irritation or other sympto	19 approved respirator if	
Hygiene Measures	Handle in accordance with	n good industrial hygiene and safe	ety practice.	
	9. Physical and ch	nemical properties		

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point	Solid White Odorless No information available No information available No data available No information available No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H12 N4 O5
Molecular Weight	244.2

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Product	ts Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informatio	<u>n</u>					
Component		LD50 Oral		LD50 Dermal	LC50	Inhalation
Ribavirin		2700 mg/kg (Rat)		Not listed	No	ot listed
Toxicologically Synerg Products Delayed and immediat	-	No information ava		d long-term expo	osure	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinoger
Component		IARC	NTD	ACGIH	0687	Mexico

Ribavirin 36791-04-5 Not listed Not listed Not listed Not listed Not listed	Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
	Ribavirin	36791-04-5	Not listed				

Mutagenic Effects	No information available		
Reproductive Effects	No information available.		
Developmental Effects	No information available.		
Teratogenicity	No information available.		
STOT - single exposure STOT - repeated exposure	None known None known		
Aspiration hazard	No information available		
Symptoms / effects,both acute and delayed	No information available		
Endocrine Disruptor Information	No information available		
Other Adverse Effects	The toxicological properties	s have not been fully investigated.	
	12. Ecologica	linformation	
Ecotoxicity Do not empty into drains.			
Persistence and Degradability	Persistence is unlikely		
Bioaccumulation/ Accumulation	No information available.		
Mobility	Will likely be mobile in the	environment due to its water solubility.	
Component		log Pow	
		a = a	

Component	log Pow
Ribavirin	-3.58

13. Disposal considerations				
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			
14. Transport information				
DOT	Not regulated			
<u>_TDG</u>	Not regulated			
	Not regulated			
IMDG/IMO	Not regulated			

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ribavirin	36791-04-5	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ribavirin	36791-04-5	-	-	-	-	Х	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Ribavirin	36791-04-5	Developmental Male Reproductive	-	Developmental
J.S. State Right-to-Know Regulations	Not applica	ble		
J.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant	oortation N N			
DOT Severe Marine Polluta				
U.S. Department of Homeland This product Security		ct does not contain any DHS	chemicals.	
Other International Regula	ations			

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ribavirin	36791-04-5	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

Ribavirin	36791-04-5	Not applicable	Not applicable	Not applicable	Not applicable	
		16. Other inf	ormation			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com					
Creation Date Revision Date Print Date Revision Summary	24-Aug-2 28-Dec-2 28-Dec-2 Not appl	2021 2021				

Disclaimer

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End of SDS