

according to the OSHA Hazard Communication Standard

## **Elbasvir Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
10.0	07/06/2024	529970-00024	Date of first issue: 02/23/2016

#### **SECTION 1. IDENTIFICATION**

Product name	:	Elbasvir Formulation						
Manufacturer or supplier's	Manufacturer or supplier's details							
Company name of supplier	:	Merck & Co., Inc						
Address	:	126 E. Lincoln Avenue						
		Rahway, New Jersey U.S.A. 07065						
Telephone	:	908-740-4000						
Emergency telephone	:	1-908-423-6000						
E-mail address	:	EHSDATASTEWARD@merck.com						
Recommended use of the chemical and restrictions on use								
Recommended use	:	Pharmaceutical						

	. I nannaooanoo
Restrictions on use	: Not applicable

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust				
Carcinogenicity (Inhalation)	:	Category 2		
GHS label elements Hazard pictograms	:			
Signal Word	:	Warning		
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H351 Suspected of causing cancer if inhaled.		
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> <li>Response:</li> <li>P308 + P313 IF exposed or concerned: Get medical attention.</li> <li>Storage:</li> <li>P405 Store locked up.</li> <li>Disposal:</li> </ul>		
		Disposali		

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

#### Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)			
Cellulose	9004-34-6	>= 10 - < 20			
Elbasvir	1370468-36-2	>= 5 - < 10			
Titanium dioxide	13463-67-7	>= 0.1 - < 1			
A studies a sector time is with held as a trade as exact.					

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice 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	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of causing cancer if inhaled. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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).
Notes to physician	:	Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a





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				potential dust exp Exposure to comb	losion hazard. Justion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour	nds	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Special protective equipment for fire-fighters		:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SEC	SECTION 6. ACCIDENTAL RELEASE MEASURES					
	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures		Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.	
		<b>U</b>	
Local/Total ventilation	:	Use only with adequate ventilation.	
Advice on safe handling	:	Do not breathe dust.	
		Do not swallow.	
		Avoid contact with eyes.	





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		Handle in acc practice, base assessment Minimize dus Keep contain Keep away fr Take precaut Take care to environment.	ged or repeated contact with skin. cordance with good industrial hygiene and safety ed on the results of the workplace exposure t generation and accumulation. er closed when not in use. om heat and sources of ignition. ionary measures against static discharges. prevent spills, waste and minimize release to the
Cond	litions for safe storage		erly labeled containers. rdance with the particular national regulations.
Mate	rials to avoid		with the following product types:

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters							
inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3						
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3						
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3						
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3						
Dust, nuisance dust and par- ticulates	10 mg/m³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL						
	5 mg/m³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL						
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Cellulose	9004-34-6	TŴA	10 mg/m <sup>3</sup>	ACGIH			
		TWA (Res-	5 mg/m <sup>3</sup>	NIOSH REL			
		pirable)					
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL			
			4 - 4 - 2				

TWA (total

TWA (respir-

dust)

15 mg/m<sup>3</sup>

5 mg/m<sup>3</sup>

OSHA Z-1

OSHA Z-1



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<u> </u>				able fraction)				
Elbas			1370468-36- 2	TWA	150 μg/m3 (OEB 2)	Internal		
Titani	um dioxide		13463-67-7	TWA (total dust)	15 mg/m³	OSHA Z-1		
Engineering measures :			Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.					
Perso	onal protective equip	ment						
	iratory protection	:	: General and local exhaust ventilation is recommended t maintain vapor exposures below recommended limits. V concentrations are above recommended limits or are unknown, appropriate respiratory protection should be v Follow OSHA respirator regulations (29 CFR 1910.134) use NIOSH/MSHA approved respirators. Protection pro- by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure a supplied respirator if there is any potential for uncontroll release, exposure levels are unknown, or any other circumstance where air purifying respirators may not pro- adequate protection.					
	aterial	:	Chemical-resi	Chemical-resistant gloves				
	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.					
	and body protection ene measures	:	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.					

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	brown

Odor : odorless



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	Odor TI	hreshold	:	No data available	9
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	No data available	2
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available	2
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	No data available	

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products		Oxidizing agents No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

#### **Components:**

Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Elbasvir:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
		LD50 (Mouse): > 1,000 mg/kg
Titanium dioxide:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist





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			Assessment: The tion toxicity	e substance or mixture has no acute inhala-
Skii	n corrosion/irritation			
Not	classified based on avai	lable	information.	
Cor	nponents:			
Elba	asvir:			
Spe Res		:	reconstructed hu No skin irritation	man epidermis (RhE)
Tita	nium dioxide:			
Spe		:	Rabbit	
Res	ult	:	No skin irritation	
Ser	ious eye damage/eye iı	ritat	ion	
Not	classified based on avai	lable	information.	
<u>Cor</u>	nponents:			
	asvir:			
Spe Res		:	Bovine cornea No eye irritation	
		-		
	nium dioxide:			
Spe Res		:	Rabbit No eye irritation	
Res	piratory or skin sensit	izatio	on	
	n sensitization			
	classified based on avai	lable	information.	
	piratory sensitization classified based on avai	labla	information	
	nponents:	lable		
	<b>asvir:</b> t Type		Local lymph node	e assav (LLNA)
Rou	ites of exposure	:	Dermal	
Spe Res	cies sult	:	Mouse negative	
			5	
	nium dioxide:			(1
Tes Rou	t Type ites of exposure	:	Local lymph node Skin contact	e assay (LLNA)
Spe	cies	:	Mouse	
Res	SUIL	:	negative	

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ersion ).0	Revision Date: 07/06/2024		Number: 70-00024	Date of last issue: 04/06/2024 Date of first issue: 02/23/2016
	a <b>cell mutagenicity</b> lassified based on ava	ilable inf	ormation.	
Comp	oonents:			
Cellu	lose:			
Geno	toxicity in vitro		est Type: Bacte esult: negative	rial reverse mutation assay (AMES)
			est Type: In vitre esult: negative	o mammalian cell gene mutation test
Geno	toxicity in vivo	cy S A	est Type: Mamr /togenetic assa pecies: Mouse pplication Route esult: negative	
Elbas	svir:			
Geno	toxicity in vitro		est Type: Bacte esult: negative	rial reverse mutation assay (AMES)
			est Type: Chror esult: negative	nosome aberration test in vitro
Geno	toxicity in vivo	S A	est Type: In vive pecies: Rat pplication Route esult: negative	o micronucleus test e: Oral
	cell mutagenicity -		eight of evidene	ce does not support classification as a germ
Titani	ium dioxide:			
Geno	toxicity in vitro		est Type: Bacte esult: negative	rial reverse mutation assay (AMES)
Geno	toxicity in vivo	S	est Type: In vivo pecies: Mouse esult: negative	o micronucleus test
	<b>nogenicity</b> ected of causing cance	er if inhal	ed.	
•	<u>oonents:</u>			
Cellu	lose:			
	cation Route sure time	: 72	at gestion 2 weeks egative	



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Specie Applic	ation Route ure time d	:	Rat inhalation (dust/r 2 Years OECD Test Guid positive The mechanism mans.	
Carcin ment	ogenicity - Assess-	:	Limited evidence animals.	e of carcinogenicity in inhalation studies with
IARC	Group 2B: F Titanium dio		ly carcinogenic to	humans 13463-67-7
II OSHA			this product pres regulated carcinc	ent at levels greater than or equal to 0.1% is gens.
NTP				nt at levels greater than or equal to 0.1% is d carcinogen by NTP.
Cellul	<u>onents:</u> ose: s on fertility	:	Test Type: One- Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion
Effects	s on fertility	:	Species: Rat Application Rout	
	s on fetal developmen		Species: Rat Application Rout Result: negative	
Elbas				
Effects	s on fertility	:	Species: Rat, ma Application Rout	e: Oral : 1,000 mg/kg body weight
Effects	s on fetal developmen	t:	Species: Rat Application Rout Developmental	ryo-fetal development e: Oral Foxicity: NOAEL: 1,000 mg/kg body weight ts on early embryonic development.
			Test Type: Emb Species: Rabbit Application Rout	ryo-fetal development e: Oral

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			tal Toxicity: NOAEL: 1,000 mg/kg body weight fects on early embryonic development.
STO	T-single exposure		
Not c	lassified based on ava	ilable information.	
	T-repeated exposure		
	lassified based on ava	illable information.	
Кере	eated dose toxicity		
<u>Com</u>	ponents:		
	llose:		
Spec NOA		: Rat : >= 9,000 mg	ka
Appli	cation Route	: Ingestion	r g
Expo	sure time	: 90 Days	
Elba	svir:		
Spec		: Rat	
NOA		: 1,000 mg/kg	
	cation Route sure time	: Oral : 180 d	
Rema			t adverse effects were reported
Spec	ies	: Dog	
NOA		: 1,000 mg/kg	
	cation Route sure time	: Oral : 270 d	
Rema			t adverse effects were reported
Titon	ium dioxide:		
Spec		: Rat	
NOA	EL	: 24,000 mg/kg	9
	cation Route sure time	: Ingestion	
<b>II</b> Expo	sure lime	: 28 Days	
Spec		: Rat	
NOA Appli	cation Route	: 10 mg/m <sup>3</sup> : inhalation (du	ust/mist/fume)
Expo	sure time	: 2 y	
Asni	ration toxicity		
-	lassified based on ava	ilable information.	
Expe	erience with human e	xposure	
<u>Co</u> m	ponents:		
Elba			
Inges		: Symptoms: H	leadache, Abdominal pain, constipation, Nausea,
		- ,	· · · · · · · · · · · · · · · · · · ·

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				ain, joint pain, Dizziness, Cough, Skin irrita- siness, nasal congestion
SECTI	ION 12. ECOLOGICAL INFO	DRN	IATION	
E	cotoxicity			
<u>C</u>	omponents:			
C	ellulose:			
Т	oxicity to fish	:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l h on data from similar materials
E	Ibasvir:			
Т	oxicity to fish	:	Exposure time: 96 Method: OECD Te	
			Exposure time: 96	ryllina (Silverside)): > 10 mg/l h city at the limit of solubility.
	oxicity to daphnia and other quatic invertebrates	:	Exposure time: 48 Method: OECD Te	
			LC50 (Americamy Exposure time: 96 Method: US-EPA Remarks: No toxid	5 h
	oxicity to algae/aquatic lants	:	Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD Te	
	oxicity to fish (Chronic tox- ity)	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
ad	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	Exposure time: 21 Method: OECD Te	





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Toxic	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
			NOEC: 271.9 mg/ Exposure time: 3 Test Type: Respir Method: OECD To	h ration inhibition
Titan	ium dioxide:			
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h
Toxic plants	ity to algae/aquatic s	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg/ 2 h
Toxic	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	ĥ
II Persi	istence and degradabili	ity		
Com	ponents:			
	llose:			
Biode	egradability	:	Result: Readily bi	odegradable.
Elbas	svir:			
Biode	egradability	:	Result: Not readily Biodegradation: 3 Exposure time: 28	37 %
Bioa	ccumulative potential			
Com	ponents:			
Elbas	svir:			
Bioad	ccumulation	:	Species: Lepomis Bioconcentration Method: OECD To	





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Mobil	lity in soil				
Com	ponents:				
<b>Elbas</b> Distrik menta	svir: bution among environ- al compartments	:	log Koc: 5.24		
•	<b>r adverse effects</b> ata available				

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

#### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

UNRTDG UN number : UN 3077 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI	D.
N.O.S. (Elbasvir)	_ ,
Class : 9	
Packing group : III	
Labels : 9	
Environmentally hazardous : yes	
IATA-DGR	
UN/ID No. : UN 3077	
Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Elbasvir)	
Class : 9	
Packing group : III	
Labels : Miscellaneous	
Packing instruction (cargo : 956 aircraft)	
Packing instruction (passen- : 956 ger aircraft)	
Environmentally hazardous : yes	
IMDG-Code	
UN number : UN 3077	
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI	D,
N.O.S.	
(Elbasvir)	
Class : 9	
Packing group : III	
Labels : 9	



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	pollutant	: F-A, S-F : yes	
	port in bulk according plicable for product as	-	RPOL 73/78 and the IBC Code
Dome	stic regulation		
Prope Class Packir Labels ERG (	/NA number r shipping name ng group S Code e pollutant	<ul> <li>(Elbasvir)</li> <li>9</li> <li>III</li> <li>CLASS 9</li> <li>171</li> <li>yes(Elbasvir)</li> <li>Above applies of liters.</li> <li>Shipment by grownay be shipped</li> </ul>	v hazardous substance, solid, n.o.s. only to containers over 119 gallons or 450 ound under DOT is non-regulated; however it l per the applicable hazard classification to nodal transport involving ICAO (IATA) or IMO.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

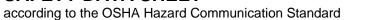
#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust Carcinogenicity
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **US State Regulations**

Pennsylvania Right To Know			
Hydroxypropyl methylcellulose	9004-65-3		
Croscarmellose sodium	74811-65-7		
Cellulose	9004-34-6		
D-Glucose, 4-O-β-D-galactopyranosyl-, monohydrate	64044-51-5		

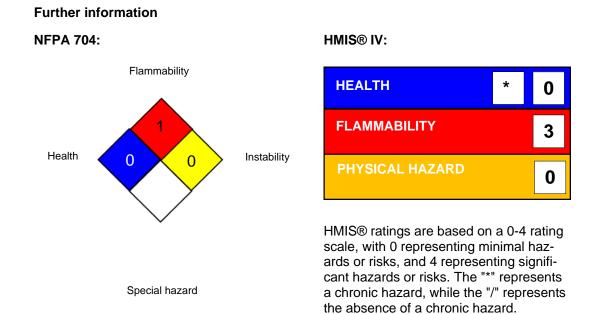




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	Sodium chloride Elbasvir Tocopherol polye	ethyleneglycol succi	7647-14-5 1370468-36-2 9002-96-4				
WAR know	<b>California Prop. 65</b> WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.						
California Permissible Exposure Limits for Chemical Contaminants Cellulose 9004-34-6							
The ingredients of this product are reported in the following inventories:  AICS							
DSL		: not determin					
IECS	С	: not determin	ied				

### **SECTION 16. OTHER INFORMATION**



Full	text	of	other	abbreviations
i un	IC AL	U.	ound	abbicviations

ACGIH CAL PEL	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>California permissible exposure limits for chemical contami- nants (Title 8, Article 107)</li> </ul>
NIOSH REL OSHA Z-1	<ul> <li>USA. NIOSH Recommended Exposure Limits</li> <li>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</li> </ul>
OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

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10.0	07/06/2024	529970-00024	Date of first issue: 02/23/2016
CAL F NIOSI OSHA	H / TWA PEL / PEL H REL / TWA A Z-1 / TWA A Z-3 / TWA		posure limit average concentration for up to a 10-hour a 40-hour workweek ighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-ments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to compile the Material 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/
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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

according to the OSHA Hazard Communication Standard



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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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