

Version 7.0	Revision Date: 06.07.2024	SDS Number: 6199206-00014	Date of last issue: 06.04.2024 Date of first issue: 24.08.2020				
SECTION	1. IDENTIFICATION						
Produ	uct name	: Molnupiravir	: Molnupiravir Capsule Formulation				
Manu	ufacturer or supplier	's details					
Com	pany	: MSD					
Addre	ess		855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB				
Telep	phone	: 908-740-400	0				
Emer	rgency telephone	: 1-908-423-60	1-908-423-6000				
E-ma	il address	: EHSDATAS	reward@msd.com				
Reco	ommended use of the	e chemical and restr	ictions on use				
	mmended use	: Pharmaceuti					
Restr	rictions on use	: Not applicab	le				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation :	Category 3
Specific target organ toxicity - : repeated exposure (Oral)	Category 1 (Gastrointestinal tract)
GHS label elements Hazard pictograms :	
Signal Word :	Danger
Hazard Statements :	H316 Causes mild skin irritation. H372 Causes damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.
Precautionary Statements :	Prevention: P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
	Response: P314 Get medical advice/ attention if you feel unwell. P332 + P313 If skin irritation occurs: Get medical advice/ atten-



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tion.

Disposal:

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

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 70 -< 90
Molnupiravir	2492423-29-5	>= 70 -< 90

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 if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with 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	:	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	:	Causes mild skin irritation. Causes damage to organs through prolonged or repeated exposure if swallowed.
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.



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	Specific hazards during fire fighting Hazardous combustion prod- ucts		:	Exposure to combustion products may be a hazard to health. Carbon oxides Metal oxides		
	Specific extinguishing meth- ods Special protective equipment for fire-fighters		:	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. Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
SEC		. ACCIDENTAL RELE	ASI	· ·		
	Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
	Enviror	nmental precautions	Il precautions :		he environment. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.	
		ls and materials for ment and cleaning up	:	container for disper Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces	

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.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety



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		practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the				
Cond	litions for safe storage	environment. : Keep in properly labeled containers.				
•• •		Store in accordance with the particular national regulations.				
Materials to avoid		 Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases 				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	CMP	10 mg/m ³	AR OEL
		TWA	10 mg/m ³	ACGIH
Molnupiravir	2492423-29- 5	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100cm2	Internal

Ingredients with workplace control parameters

Engineering measures	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	t	
Respiratory protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type Hand protection	Particulates type	
Material	Chemical-resistant gloves	
Remarks Eye protection	Consider double gloving. 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	



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Skin and body protection		 potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially 			
Hygiene measures		eye flushing sys working place. When using do n Wash contamina The effective op engineering con appropriate deg	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	white to off-white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable



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F	Relative	edensity	:	No data available	
C	Density		:	No data available)
S	Solubilit Wate	ry(ies) er solubility	:	No data available)
-	Partitior	n coefficient: n-	:	Not applicable	
-		ition temperature	:	No data available)
[Decomp	position temperature	:	No data available	9
١	Viscosit Visc	y osity, kinematic	:	Not applicable	
E	Explosiv	ve properties	:	Not explosive	
C) Vidi z in	a proportion			r mixture is not eleccified on exidizing
C	JXIUIZII	ig properties	•	The substance of	r mixture is not classified as oxidizing.
Ν	Volecul	ar weight	:	No data available	
•	Particle Particle	characteristics size	:	No data available	

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	:	Oxidizing agents No hazardous decomposition products are known.
products		· · ·

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact
		Ingestion Eye contact

Acute toxicity

Not classified based on available information.

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 Molnupiravir: . . Acute oral toxicity :: LD0 (Rat): 2.000 mg/kg	e: 06.04.2024 e: 24.08.2020
Molnupiravir: Acute oral toxicity : LD0 (Rat): 2.000 mg/kg LD0 (Dog): 2.000 mg/kg Skin corrosion/irritation Causes mild skin irritation. Components: Molnupiravir: Species : reconstructed human epidermis (Rf Method : EpiDerm Result : Mild skin irritation Serious eye damage/eye irritation Not classified based on available information. Components: Molnupiravir: Species : Bovine cornea Result : No eye irritation Method : Bovine cornea (BCOP) Respiratory or skin sensitization Skin sensitization Not classified based on available information. Respiratory sensitization Not classified based on available information. Gern cell mutagenicity Not classified based on available information. Gernets: Cellulose: Genotoxicity in vitro : Test Type: Bacterial reverse mutatia Result: negative Test Type: In vitro mammalian cell	
Acute oral toxicity : LD0 (Rat): 2.000 mg/kg LD0 (Dog): 2.000 mg/kg Skin corrosion/irritation Causes mild skin irritation. Components: Molnupiravir: Species : Species : Result : Serious eye damage/eye irritation Not classified based on available information. Components: Molnupiravir: Species : Species : Bovine cornea Result : Molnupiravir: Species : Species : Bovine cornea Result : Molnupiravir: Species : Bovine cornea Result : Method : Bovine cornea (BCOP) Respiratory or skin sensitization Not classified based on available information. Gern cell mutagenicity Not classified based on available information. Germ cell mutagenicity Not classified based on available information.<	
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Skin corrosion/irritation. Causes mild skin irritation. Components: Molnupiravir: Species : reconstructed human epidermis (Rf Method Method : EpiDerm Result Result : Mild skin irritation Serious eye damage/eye irritation Not classified based on available information. Components: Molnupiravir: Species : Bovine cornea Result : No eye irritation Method : Bovine cornea (BCOP) Respiratory or skin sensitization Skin sensitization Not classified based on available information. Respiratory or skin sensitization Not classified based on available information. Germ cell mutagenicity Not classified based on available information. Germ cell mutagenicity Not classified based on available information. Components: Cellulose: Genotoxicity in vitro : Test Type: Bacterial reverse mutation Result: negative Test Type: In vitro mammalian cell	
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Cellulose: Genotoxicity in vitro : Test Type: Bacterial reverse mutation Result: negative Test Type: In vitro mammalian cell	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation Result: negative Test Type: In vitro mammalian cell	
	on assay (AMES)
	gene mutation test
Genotoxicity in vivo : Test Type: Mammalian erythrocyte cytogenetic assay)	micronucleus test (in vi



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		Species: Mous Application Ro Result: negativ	ute: Ingestion
Molnu	upiravir:		
	toxicity in vitro	: Test Type: Am Result: positive	
		Test Type: Mic Test system: h Result: negativ	uman lymphoblastoid cells
Genot	toxicity in vivo	: Test Type: Mic Species: Rat Cell type: Bone Application Ro Result: negativ	e marrow ute: Oral
			ute: Oral
	cell mutagenicity -	: Weight of evide cell mutagen.	ence does not support classification as a gerr
Carci	nogenicity		
	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Cellu	lose:		
Speci		: Rat	
	cation Route sure time	: Ingestion : 72 weeks	
Resul		: negative	
-	oductive toxicity		
	assified based on ava	illable information.	
	<u>oonents:</u>		
Cellul		· Toot Turner Or	a concration reproduction to visity study
Enect	s on fertility	: Test Type: On Species: Rat Application Ro Result: negativ	



Molnupiravir Capsule Formulation

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Effects	s on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development :: Ingestion
Molnu	ıpiravir:			
Effects	s on fetal development	:	Species: Rat Application Route Developmental T Symptoms: Effect ment. Result: No effects ment were detect Remarks: Not cla	oxicity: LOAEL: > 200 mg/kg body weight ts on embryofetal and postnatal develop- s on fertility and early embryonic develop-

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.

Components:

Molnupiravir:

Routes of exposure	:	Oral
Target Organs	:	Gastrointestinal tract
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Cellulose:

Cellulose.		
Species NOAEL Application Route Exposure time	:	Rat >= 9.000 mg/kg Ingestion 90 Days
Molnupiravir:		
Species	:	Rat
LOAEL	:	2.000 mg/kg
Exposure time	:	7 d
Target Organs	:	Stomach
Species	:	Dog
LÖAEL	:	300 mg/kg
Exposure time	:	7 d
Target Organs	:	Gastrointestinal tract



)	Revision Date: 06.07.2024	-	99206-00014	Date of last issue: 06.04.2024 Date of first issue: 24.08.2020
Sympto	oms	:	tachycardia, decr rhea, Vomiting	eased activity, decrease in appetite, Diar-
Specie NOAEI Exposi		:	Rat 500 mg/kg 28 d	
	ure time Organs		Dog 6 mg/kg 17 mg/kg 28 d Gastrointestinal tr decreased activity appetite	act /, Gastrointestinal tract damage, decrease
	tion toxicity ssified based on availa	ble	information.	
Experi	ence with human exp	osu	re	
Comp	onents:			
	piravir: al Information	:		ache, Gastrointestinal disturbance ost common side effects are: pain
CTION 1	2. ECOLOGICAL INFO	DRN	IATION	
Ecoto	kicity			
<u>Comp</u>	onents:			
Cellulo		:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Celluic Toxicit	ose: y to fish	:	Exposure time: 48	h i i i i i i i i i i i i i i i i i i i
Celluio Toxicit <u>y</u> Molnu	ose:	:	Exposure time: 44 Remarks: Based	3 h on data from similar materials elis subcapitata (freshwater green alga)): 89 h
Celluic Toxicit Molnu Toxicit plants	piravir:	:	Exposure time: 44 Remarks: Based EC10 (Raphidoce mg/l End point: Growth Exposure time: 72 Method: OECD T	3 h on data from similar materials elis subcapitata (freshwater green alga)): 89 1 2 h est Guideline 201 s promelas (fathead minnow)): 5,8 mg/l 2 d



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-	Toxicity	/ to microorganisms	:	EC10: 143,1 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition of activated sludge
	Ecotox	cicology Assessment			
		aquatic toxicity	:	This product has	no known ecotoxicological effects.
(Chronic	c aquatic toxicity	:	This product has	no known ecotoxicological effects.
I	Persist	tence and degradabil	ity		
9	Compo	onents:			
	Cellulo	ose:			
I	Biodeg	radability	:	Result: Readily bi	odegradable.
1	Molnu	piravir:			
		radability	:	Result: Readily bi Biodegradation: 8 Exposure time: 28 Method: OECD To	31 % 3 d
1	Bioacc	umulative potential			
		onents:			
_		piravir:			
I		n coefficient: n-	:	log Pow: -0,534 pH: 7	
I	Mobilit	y in soil			
(Compo	onents:			
-	Molnui	piravir:			
I	Distribu	ution among environ- compartments	:	OECD Test Guide log Koc: 1,45	eline 106
	Other a	adverse effects			
I	No data	a available			
SEC	TION 1	3. DISPOSAL CONSII	DER	ATIONS	
I	Dispos	al 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
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.





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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

SECTION 15. REGULATORY INFORMATION

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	:	06.07.2024
Date format	:	dd.mm.yyyy

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety	eChem Portal search results and European Chemicals Agen-
Data Sheet	cy, http://echa.europa.eu/

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

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
AR OEL	:	Argentina. Occupational Exposure Limits



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ACGIH / TWA	:	8-hour, time-weighted average
AR OEL / CMP	:	TLV (Threshold Limit Value)

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 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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