

Version 2.10	Revision Date: 10.10.2020	SDS Number: 402591-00013	Date of last issue: 23.03.2020 Date of first issue: 10.12.2015
Section 1	: Identification		
Produ	uct name	: Rizatriptan F	ormulation
Manu	facturer or supplier's d	etails	
Comp	bany	: Organon & C	Co.
Addre	955		Street, 33nd floor New Jersey, U.S.A 07302
Telep	hone	: 551-430-600	0
Emer	gency telephone number	: 215-631-699	9
E-ma	il address	: EHSSTEWA	RD@organon.com
Reco	mmended use of the ch	nemical and restr	ictions on use
Reco	mmended use	: Pharmaceuti	cal
	Classification	: Category 2	
Speci	fic target organ toxicity	: Category 2 : Category 2 (Cardio-vascular system)
repea	ted exposure (Oral)		
	label elements		
Haza	rd pictograms		
Signa	l word	: Warning	
Haza	rd statements	H373 May ca	ected of damaging the unborn child. ause damage to organs (Cardio-vascular system onged or repeated exposure if swallowed.
Preca	autionary statements	P202 Do not and understo P260 Do not	special instructions before use. handle until all safety precautions have been re ood. breathe dust. ersonal protective equipment as required.
		Response: P308 + P313 attention.	B IF exposed or concerned: Get medical advice/
		Storage:	





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P405 Store locked up.

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. Contact with dust can cause mechanical irritation or drying of the skin. 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	>= 30 -< 60
Starch	9005-25-8	>= 10 -< 30
Rizatriptan	145202-66-0	>= 3 -< 10

Section 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	:	
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 damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. 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



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	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
	Unsuitable extinguishing media		:	: None known.			
	Specific hazards during fire- fighting		:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.		
	Hazard ucts	ous combustion prod-	:	Carbon oxides			
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so.	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 for firefi	protective equipment ighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.		
Sec	ection 6: Accidental release me		easi	ures			
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
	Environmental precautions		:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages		
		ls and materials for ment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national n posal of this mate employed in the c mine which regula 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



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	al/Total ventilation ice on safe handling	 and bonding, or inert atmospheres. Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Minimize dust generation and accumulation. 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 static discharges. 			
Hyg	iene measures	flushing system place. When using do Wash contamin The effective op engineering cor appropriate deg industrial hygier	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of htrols, proper personal protective equipment, jowning and decontamination procedures, he monitoring, medical surveillance and the rative controls		
Con	ditions for safe storage	 use of administrative controls. Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulation 			
Mat	erials to avoid		h the following product types:		

Section 8: Exposure controls/personal protection

	-			
Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		•		
		exposure)	concentration	
Cellulose	9004-34-6	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Starch	9005-25-8	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Rizatriptan	145202-66-0	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal

Components 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 con-

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		tainment de Minimize o	evices). oen handling.	
Pers	onal protective equip	ment		
Resp	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 Hand protection		s type	
М	aterial	: Chemical-r	esistant gloves	
	emarks protection	: Wear safet If the work mists or ae Wear a fac	ouble gloving. y glasses with side shields or goggles. environment or activity involves dusty conditions, rosols, wear the appropriate goggles. eshield or other full face protection if there is a r direct contact to the face with dusts, mists, or	
Skin	and body protection	: Work unifor Additional t task being posable su Use approp	rm or laboratory coat. body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis- its) to avoid exposed skin surfaces. briate degowning techniques to remove potentially ed clothing.	

Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	pink
Odour	:	odourless
Odour 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	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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	Lower explosion limit / Lower flammability limit		:	No data available)
	Vapour pressure		:	No data available)
	Relative	e vapour density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition coefficient: n- octanol/water Auto-ignition temperature		:	No data available)
			:	No data available)
	Decomposition temperature		:	No data available)
	Viscosi Visc	ty :osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
		ng properties lar weight	:	The substance of No data available	r mixture is not classified as oxidizing.
	Particle	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, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	

Section 11: Toxicological information

Exposure routes	: Inhalation
-	Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Product:





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Acute	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
Com	oonents:			
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Starc	h:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Rizat	riptan:			
	oral toxicity	:	LD50 (Rat): 2,227	7 mg/kg
			LD50 (Mouse): 70	00 - 1,631 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Rizatriptan:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Starch:

Species	
Result	

RabbitNo eye irritation

Rizatriptan:

Species	:	Bovine cornea
Remarks	:	Moderate eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.



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Respi	ratory sensitisatio	on	
Not cla	assified based on a	vailable information.	
<u>Comp</u>	onents:		
Starch	ו:		
Test T	ype ure routes	: Maximisation : Skin contact	Test
Specie		: Guinea pig	
Result		: negative	
Rizatr	iptan:		
Test T		: Maximisation	Test
Specie	ure routes es	: Dermal : Guinea pig	
Asses	sment	: Does not cau	se skin sensitisation.
Result		: negative	
Chron	ic toxicity		
	cell mutagenicity assified based on a	vailable information.	
<u>Comp</u>	onents:		
Cellul	ose:		
Genote	oxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test tive
Genote	oxicity in vivo	cytogenetic a Species: Mor	use coute: Ingestion
		eeunegu	
Starch			
Genot	oxicity in vitro	Result: nega	acterial reverse mutation assay (AMES) tive
Rizatr	iptan:		
	oxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: A Result: nega	lkaline elution assay tive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test tive
		Test Types C	hromosome aberration test in vitro



rsion I0	Revision Date: 10.10.2020	SDS Number: 402591-00013	Date of last issue: 23.03.2020 Date of first issue: 10.12.2015
		Result: nega	tive
Genot	toxicity in vivo	: Test Type: M cytogenetic a Species: Mo Application F Result: nega	use Route: Oral
	nogenicity assified based on ava	ilable information.	
Comp	oonents:		
Cellu	lose:		
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Rizatı	riptan:		
	cation Route sure time EL	: Mouse : Oral : 100 weeks : 125 mg/kg b : negative	ody weight
	cation Route sure time EL	: Rat : Oral : 106 weeks : 106 mg/kg b : negative	ody weight
•	oductive toxicity ected of damaging the	unborn child.	
<u>Comp</u>	ponents:		
Cellu	lose:		
Effect	s on fertility	Species: Rat	Route: Ingestion
Effect ment	s on foetal develop-	Species: Rat	Route: Ingestion
Rizati	riptan:		
	s on fertility	Species: Rat Application F	



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		R	ymptoms: altered esult: No effects ent were detecte	on fertility and early embryonic develop-
		S A F R	pecies: Rat, mal pplication Route ertility: NOAEL: 2	: Oral 250 mg/kg body weight on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	S A D	pecies: Rat pplication Route evelopmental To	o-foetal development : Oral oxicity: LOAEL: 10 mg/kg body weight genic effects, Embryo-foetal toxicity
		S A D R	pecies: Rabbit pplication Route evelopmental To esult: No teratog emarks: The effe	o-foetal development : Oral oxicity: LOAEL: 100 mg/kg body weight genic effects, Embryo-foetal toxicity ects were seen only at maternally toxic dos-
Repro sessr	oductive toxicity - As- nent		ome evidence of nimal experimen	adverse effects on development, based on ts.
Not c	F - single exposure lassified based on avai	lable inf	ormation.	
Com	ponents:			
	riptan: ssment	: M	ay cause drowsi	iness or dizziness.
May	Γ - repeated exposure cause damage to organ allowed.		io-vascular syste	em) through prolonged or repeated exposure
Com	ponents:			
Targe	riptan: et Organs ssment	: C	ardio-vascular s auses damage t kposure.	ystem o organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
Cellu	lose:			
Spec NOAI		: R : >:	at = 9,000 mg/kg	



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	cation Route sure time	: Ingestion : 90 Days	
	ies EL cation Route sure time	: Rat : >= 2,000 mg/k : Skin contact : 28 Days : OECD Test Gi	-
Spec LOAE Applie	EL cation Route sure time	: Rat : 1 mg/kg : Oral : 14 Weeks : Dilatation of th	e pupil, Increased pulse rate, Redness
	EL cation Route sure time	: Dog : 0.05 mg/kg : Intravenous : 2 Weeks : Dilatation of th	e pupil, Increased pulse rate, Redness
	EL cation Route sure time	: Dog : 0.2 mg/kg : Oral : 1 yr : Dilatation of th	e pupil
-	ration toxicity lassified based on ava	ailable information.	
Expe	rience with human e	xposure	
<u>Com</u>	ponents:		
Rizat Inges	riptan: tion		: Cardio-vascular system thenia, Fatigue, Pain, Dizziness, Weakness,
Section 1	2: Ecological inform	ation	
Ecote	oxicity		
Com	ponents:		
Cellu	lose:		
	ity to fish	Exposure time	latipes (Japanese medaka)): > 100 mg/l : 48 h ed on data from similar materials

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Toxicit	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 1,000 mg/ 5 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): 1,000 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
	y to daphnia and other c invertebrates (Chron- tity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
			NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
Persis	tence and degradabili	ity		
Comp	onents:			
Cellulo	ose:			
Biodeg	gradability	:	Result: Readily bi	odegradable.
Rizatri	iptan:			
Biodeg	gradability	:	Result: Not readily Biodegradation: 5 Exposure time: 13 Method: OECD To	50 % 3 d
Bioaco	cumulative potential			
Comp	onents:			
Rizatri	iptan:			
Dortitio	on coefficient: n-	:	log Pow: -0.649	





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Mobil	lity in soil		
Com	ponents:		
Distrik	riptan: bution among environ- al compartments	: log Koc: 3.83 Method: OECD	Test Guideline 106
	r adverse effects ata available		
ection 1	3: Disposal considera	tions	
Waste	osal methods e from residues aminated packaging	: Empty containe dling site for re	ccordance with local regulations. ers should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.
ection 14	4: Transport informati	on	
Interr	national Regulations		
UNRT Not re	FDG egulated as a dangerou	s good	
IATA Not re	-DGR egulated as a dangerou	s good	
-	-Code egulated as a dangerou	s good	
	sport in bulk according		RPOL 73/78 and the IBC Code
	nal Regulations		
NZS : Not re	5433 egulated as a dangerou	s good	
ection 1	5: Regulatory information	tion	
Safet ture	y, health and environr	nental regulations/I	egislation specific for the substance or mix

HSNO Approval Number

HSR100425 Pharmaceutical Active Ingredients Group Standard 2017

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.



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The c AICS	• •	broduct are reported : not determined	in the following inventories:	
DSL	DSL : not determined			
IECS	с	: not determined	ł	

Section 16: Other information

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/		
	Date format	:	dd.mm.yyyy		
Full text of other abbreviations					
	ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
	NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants		
	ACGIH / TWA	:	8-hour, time-weighted average		
	NZ OEL / WES-TWA	:	Workplace Exposure Standard - 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;



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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 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.

NZ / EN