Emergency telephone

Recommended use

Restrictions on use

Carcinogenicity

ber

Emergency telephone num- :

SECTION 2. HAZARDS IDENTIFICATION

ERIVEDGE(R) Capsules (150 mg)

Version 2.0	Revision Date: 01-29-2024		Date of last issue: 10-14-2021 Date of first issue: 12-04-2015		
SECTION 1. IDENTIFICATION					
Product name	:	ERIVEDGE(R) C	Capsules (150 mg)		
Product code	:	RO545-0815/F0	RO545-0815/F03		
Common name(s), sy nym(s) of the substan		ERIVEDGE Capsules 150 mg			
Manufacturer or sup	plier's deta	ails			
Company name of su	pplier :	Genentech, Inc.			
Address	:	1 DNA Way South San Franc USA	cisco, CA 94080		
Telephone E-mail address	:	001-(650) 225-1 info.sds@roche.			

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

: Category 1A

For professional users only.

Formulated pharmaceutical active substance

US Chemtrec phone

Recommended use of the chemical and restrictions on use

:

:

(800)-424-9300

Reproductive toxicity:Category 1BSpecific target organ toxicity:Category 2GHS label elements::Hazard pictograms::Signal Word:DangerHazard Statements:H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or re- peated exposure.	Carcinogenicity	•	Calegory TA
 repeated exposure GHS label elements Hazard pictograms Signal Word Hazard Statements H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or re- 	Reproductive toxicity	:	Category 1B
 Hazard pictograms : i i i i i i i i i i i i i i i i i i		:	Category 2
Hazard Statements : H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or re-		:	
H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or re-	Signal Word	:	Danger
	Hazard Statements	:	H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or re-

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ERIVEDGE(R) Capsules (150 mg)

Precautionary Statements : Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been and understood. P260 Do not breathe dust. P280 Wear protective gloves/ protective clothing/ eye proface protection. Response: P308 + P313 IF exposed or concerned: Get medical adviatention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved wast posal plant.	rsion	Revision Date: 01-29-2024	Date of last issue: 10-14-2021 Date of first issue: 12-04-2015
 P308 + P313 IF exposed or concerned: Get medical advio attention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved wast posal plant. 		nents : Prevention P201 Obta P202 Do no and unders P260 Do no P280 Weat	n: in special instructions before use. ot handle until all safety precautions have been reac stood. ot breathe dust. r protective gloves/ protective clothing/ eye protectio
P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved wast posal plant.		P308 + P3	
P501 Dispose of contents/ container to an approved wast posal plant.		-	e locked up.
		P501 Dispo	
None known.	Other hazards		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Vismodegib	879085-55-9	35.29
Cellulose	9004-34-6	20.54
Gelatins	9000-70-8	17.51
Lactose-1-Hydrate	64044-51-5	16.82
Starch, carboxymethyl ether, sodium salt	9063-38-1	4.12
2-Pyrrolidinone, 1-ethenyl-, homopol- ymer	9003-39-8	2.47
Sulfuric acid monododecyl ester so- dium salt (1:1)	151-21-3	1.65
Talc (Mg3H2(SiO3)4)	14807-96-6	0.82
Octadecanoic acid, magnesium salt (2:1)	557-04-0	0.4
Titanium oxide (TiO2)	13463-67-7	0.35
Iron oxide (Fe3O4)	1317-61-9	0.02
Iron oxide (Fe2O3)	1309-37-1	0.01

SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area.

Show this material safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

:



ERIVEDGE(R) Capsules (150 mg)

	(-	
	evision D -29-2024	
If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Rinse mouth with water.
Most important symptoms and effects, both acute an delayed		May cause cancer. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
SECTION 5. FIRE-FIGHTING	MEASU	RES
Suitable extinguishing me	dia :	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fir	re :	Do not allow run-off from fire fighting to enter drains or water

fighting		courses.
Hazardous combustion prod- ucts	:	In case of fire hazardous decomposition products may be produced such as: Gaseous hydrogen chloride (HCI). Sulfur oxides Nitrogen oxides (NOx) Carbon oxides Sodium oxides
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

be disposed of in accordance with local regulations. Special protective equipment : Wear self-contained breathing apparatus for firefighting if

Fire residues and contaminated fire extinguishing water must

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for fire-fighters necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Prevent any exposure Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	 Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated pla- ce. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Storage temperature	:	15 °C to 30 °C Protect against light. Protect from moisture.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.
Packaging material	:	Suitable material: Plastic container of HDPE, Polyethylene bag in metal drum, Stainless steel

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Vismodegib	879085-55-9	IOEL	0.0003 mg/m3	Roche In- dustrial Hy- giene Com- mittee (RIHC)
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
		TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
Talc (Mg3H2(SiO3)4)	14807-96-6	TWA (Dust)	20 Million par- ticles per cubic foot	OSHA Z-3
		TWA (Res- pirable)	2 mg/m3	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
Titanium oxide (TiO2)	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (Res- pirable par- ticulate mat- ter)	0.2 mg/m3 (Titanium dioxide)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	2.5 mg/m3 (Titanium dioxide)	ACGIH

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Vismodegib	Surface waters	6.9 µg/l
	Remarks:	
	Based on chronic data	

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Sodium dodecylsulfat	e Fresh wat	ter	0.176 mg/l
Engineering measur	es : No data ava	ailable	
Personal protective	equipment		
Respiratory protection	n : In the case approved fi Effective du	lter.	mation use respirator with an
Hand protection			
Material Break through time Glove thickness	: Nitrile rubbe	contact through splash er	ning:
Material Break through time Glove thickness	In case of f butyl-rubbe > 480 min > 0.4 mm		
Remarks Eye protection	Replace tor : Eye wash b	opriate protective glov rn or punctured gloves pottle with pure water og safety goggles	res to prevent skin contact. s promptly.
Skin and body protec			ng to the amount and con- stance at the work place.
Protective measures	: Instruction	of employees mandat	ory
Hygiene measures	When using	g do not eat or drink. g do not smoke. Is before breaks and a	at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	capsules
Color	:	gray
		pink
Odor	:	Not applicable
Odor Threshold	:	Not applicable
рН	:	Not applicable
Melting point/range	:	No data available



ERIVEDGE(R) Capsules (150 mg)

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Boiling point/boiling rai	nge :	No data availa	ble
Evaporation rate	:	No data availa	ble
Self-ignition	:	No data availa	ble
Upper explosion limit / flammability limit	Upper :	No data availa	ble
Lower explosion limit / flammability limit	Lower :	No data availa	ble
Vapor pressure	:	No data availa	ble
Relative vapor density	:	Not applicable	
Relative density	:	No data availa	ble
Solubility(ies) Water solubility	:	No data availa	ble
Solubility in other se	olvents :	No data availa	ble
Partition coefficient: n- octanol/water	:	No data availa	ble
Autoignition temperatu	re :	No data availa	ble
Viscosity Viscosity, dynamic	:	Not applicable	
Viscosity, kinematio	; ;	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed.
Incompatible materials	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

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

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	Method: Calcu	lation method
Acute inhalation toxicity	Acute toxicity e Exposure time Test atmosphe Method: Calcu	ere: dust/mist
Acute dermal toxicity	: Acute toxicity e Method: Calcu	estimate: > 5,000 mg/kg lation method
Components:		
Vismodegib:		
Acute oral toxicity	: LD50 Oral (Ra Method: OECI GLP: yes	t): > 2,000 mg/kg) Test Guideline 423
Cellulose:		
Acute oral toxicity	: LD50 Oral (Ra	t): > 5,000 mg/kg
Acute dermal toxicity	: LD50 Dermal ((Rabbit): > 2,000 mg/kg
Lactose-1-Hydrate:		
Acute oral toxicity		t): > 10,000 mg/kg e: anhydrous substance
Sulfuric acid monodo	decyl ester sodium salt ((1:1):
Acute oral toxicity		t, male and female): 1,200 mg/kg D Test Guideline 401
Acute inhalation toxicity	Assessment: T short term inha	The component/mixture is moderately toxic a alation.
Acute dermal toxicity	Method: OEC GLP: yes	(Rat, male and female): > 2,000 mg/kg D Test Guideline 402
	Remarks: No r	nortality observed at this dose.
Titanium oxide (TiO2)	:	
Acute oral toxicity	: LD50 (Rat): > Method: OECE	5,000 mg/kg D Test Guideline 425
Acute inhalation toxicity	Exposure time	
	Test atmosphe	ere: dust/mist

Skin corrosion/irritation

Not classified due to lack of data.

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Product:

Remarks

: May cause skin irritation and/or dermatitis.

Components:

Vismodegib:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

Sulfuric acid monododecyl ester sodium salt (1:1):

Rabbit
OECD Test Guideline 404
Irritating to skin.
no

Talc (Mg3H2(SiO3)4):

Remarks

: This information is not available.

Titanium oxide (TiO2):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks

: Product dust may be irritating to eyes, skin and respiratory system.

Components:

Sulfuric acid monododecyl ester sodium salt (1:1):

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	no

Talc (Mg3H2(SiO3)4):

Remarks

: This information is not available.

Titanium oxide (TiO2):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

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Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

components.				
Sulfuric acid monododecyl ester sodium salt (1:1):				
Result :	Did not cause sensitization on laboratory animals.			
Titanium oxide (TiO2):				
Species :	Guinea pig			
Assessment	Does not cause skin sensitization.			
Method :	OECD Test Guideline 406			
Germ cell mutagenicity				
Not classified due to lack of data.				
Components:				
Vismodegib:				
Genotoxicity in vitro :	Test Type: Ames test Method: Mutagenicity (Salmonella typhimurium - reverse mu- tation assay) Result: negative GLP: yes			
	Test Type: Chromosome aberration test in vitro Result: negative			
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative			

Sulfuric acid monododecyl ester sodium salt (1:1):

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	
May cause cancer.	

Components:

Cellulose:

Remarks

: No ingredient of this product present at levels greater than or

		so mg/		
Version 2.0	Revision I 01-29-202			sue: 10-14-2021 sue: 12-04-2015
		equal to 0.1% i human carcino		obable, possible or confirmed
	xide (TiO2): nicity - Assess- :	Limited eviden	ce of a carcinoge	nic effect.
IARC	Group 2B: Possib Titanium oxide (T		to humans	13463-67-7
OSHA	OSHA specifically Talc (Mg3H2(SiO (crystalline silica)		nogen	14807-96-6
NTP	Known to be hum Talc (Mg3H2(SiO (Silica, Crystalline	3)4)	ze))	14807-96-6
•	ive toxicity ge fertility. May damag	e the unborn chi	ld.	
	<u></u>			
Vismodegi Effects on f	i b: fetal development :	Species: Rat Application Rot Embryo-fetal to	xicity.: LOEL: 10	
Reproductiv sessment	ve toxicity - As- :		nan reproductive ne unborn child.	toxicant, May damage fertility
-	l e exposure ed due to lack of data.			
<u>Componer</u>	<u>nts:</u>			
Sulfuric ac	id monododecyl este	er sodium salt (1:1):	
Routes of e Target Orga	exposure : ans :	Inhalation Respiratory Tra	, , , , , , , , , , , , , , , , , , ,	

Talc (Mg3H2(SiO3)4):

Assessment

Assessment	: The substance or mixture is not classified as specific target
	organ toxicant, single exposure.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

: May cause respiratory irritation.

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Components:		
Vismodegib:		
Assessment	: May caus exposure	se damage to organs through prolonged or repeated
Talc (Mg3H2(SiO3	3)4):	
Assessment		tance or mixture is not classified as specific target icant, repeated exposure.
Repeated dose to	oxicity	
<u>Components:</u>		
Vismodegib:		
Species NOAEL Application Route Exposure time	: Rat : mg/kg/w, : Oral : 26 Week	
Species NOAEL	: Mouse : mg/kg bv	v/dav. 50
Application Route	: Oral	
Exposure time Remarks	: 84 d : Subchror	nic toxicity
Aspiration toxicit	у	
Not classified due	to lack of data.	
Components:		
Talc (Mg3H2(SiO 3 No data available	3)4):	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Components:	
Vismodegib:	
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 1.5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
	NOEC (Danio rerio (zebra fish)): 1.5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

Vers 2.0	ion	Revision 01-29-202		Date of last issue: 10-14-2021 Date of first issue: 12-04-2015
			Test Type: Immo Analytical monito Method: OECD GLP: yes Remarks: nomin	oring: yes Fest Guideline 202
			Exposure time: 4 Test Type: Immo Analytical monito Method: OECD GLP: yes	bilization
	Toxicity to algae/aqua plants	atic :	Exposure time: 7	irchneriella subcapitata (algae)): 0.118 mg/l ′2 h ſest Guideline 201
			Exposure time: 7	tirchneriella subcapitata (algae)): 0.099 mg/l ′2 h Fest Guideline 201
			Exposure time: 7	Test Guideline 201
			Exposure time: 7	Test Guideline 201
			Exposure time: 7	Test Guideline 201
			Exposure time: 7	Fest Guideline 201
	Toxicity to daphnia ar aquatic invertebrates ic toxicity)		Exposure time: 2 Analytical monitor	oring: yes Fest Guideline 211
			Lowest Observe	d Effect Concentration (Daphnia magna (Wa-

/ersion 2.0	Revisio 01-29-2			Date of last issue: 10-14-2021 Date of first issue: 12-04-2015
			ter flea)): 1.5 mg/ Exposure time: 2 Analytical monito Method: OECD T GLP: yes Remarks: nomina	1 d ring: yes est Guideline 211
Toxicity t	o microorganisms	:	(activated sludge Exposure time: 1 Remarks: no adv nominal concentr	4 d erse influence on substrate biodegradation
Cellulos	e:			
Ecotoxic	cology Assessment			
Acute aq	uatic toxicity	:	This product has	no known ecotoxicological effects.
Chronic a	aquatic toxicity	:	This product has	no known ecotoxicological effects.
Lactose	-1-Hydrate:			
Ecotoxic	cology Assessment			
Acute aq	uatic toxicity	:	This product has	no known ecotoxicological effects.
Chronic a	aquatic toxicity	:	This product has	no known ecotoxicological effects.
Toxicity [Data on Soil	:	Not expected to a	adsorb on soil.
Other org the enviro	ganisms relevant to onment	:	No data available	
Sulfuric	acid monododecyl e	este	r sodium salt (1:	1):
Toxicity t	•	:	•	chus mykiss (rainbow trout)): 3.6 mg/l
	o daphnia and other nvertebrates	:	Exposure time: 4	inia dubia (water flea)): 5.55 mg/l 8 h rest Guideline 202
Toxicity t icity)	o fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 4	les promelas (fathead minnow)): > 1.36 mg/l 2 d
	nvertebrates (Chron-	:	NOEC (Ceriodap Exposure time: 7	hnia dubia (water flea)): 0.88 mg/l d
Toxicity t	o microorganisms	:		nas putida): > 100 mg/l est Guideline 209
Talc (Mc	3H2(SiO3)4):			
Toxicity t		:	LC50 (Danio rerio Exposure time: 2	o (zebra fish)): > 100,000 mg/l 4 h

sion	Revision 01-29-20			Date of last issue: 10-14-2021 Date of first issue: 12-04-2015
Ecotoxicology		_		
Acute aquatic to:	kicity :		I his product has	no known ecotoxicological effects.
Chronic aquatic	toxicity :		This product has	no known ecotoxicological effects.
Toxicity Data on	Soil :	1 :	Not expected to a	idsorb on soil.
Other organisms the environment	relevant to :	: 1	No data available	
Titanium oxide	(TiO2):			
Toxicity to fish	:	E	LC50 (Pimephale Exposure time: 96 Test Type: static t	
		Ē	10,000 mg/l Exposure time: 96 Test Type: semi-s	
Toxicity to daphr aquatic invertebr		E	Exposure time: 48 Test Type: static t	
Toxicity to algae, plants	/aquatic :	r E	mg/l Exposure time: 72 Test Type: static t	
		E	EC50 (Skeletonei Exposure time: 72 Method: ISO 102	
		E	NOEC (Skeletone Exposure time: 72 Vlethod: ISO 1025	
Ecotoxicology /	Assessment			
Toxicity Data on		1 :	Not expected to a	idsorb on soil.
Other organisms the environment	relevant to :	: 1	No data available	
Persistence and	d degradability	/		
Components:				
Vismodegib: Biodegradability	:		aerobic noculum: activate	ed sludge, non-adapted

Theoretical oxygen demand Result: Not readily biodegradable. Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes Eactose-1-Hydrate: Biodegradability memarks: No data available Suffuric acid monododecyl ester sodium salt (1:1): Biodegradability memarks: No data available Suffuric acid monododecyl ester sodium salt (1:1): Biodegradability memarks: No data available Suffuric acid monododecyl ester sodium salt (1:1): Biodegradability memarks: No data available Biodegradability memarks: No data available Biodegradability memarks: Not applicable. Biodegradability Biodegradability memarks: Not applicable Bioaccumulative potential Components: Method: OECD Test Guideline 117 GLP: yes Partition coefficient: n- Cetanol/water memarks: No data available Partition coefficient: n- Cetanol/water Remarks: No data available Definition memarks: No data available Cellulose: Detacoumulation memarks: anhydrous substance Bioconerunizion Remarks: anhydrous substance Suffuric acid monododecyl ester sodium salt (1:1): Bioconerunizion factor (BCF): 3:3 - 5:3 Exposure time: 3 d Partition coefficient: n- Cetanol/water Species: Cyprinus carpio (Carp) Method: OECD Test Guideline 107 Method:	Version 2.0	Revision Date: 01-29-2024	Date of last issue: 10-14-2021 Date of first issue: 12-04-2015
Biodegradability f. Remarks: No data available Sulfuric acid monododecyl ester sodium salt (1:1): Biodegradability f. aerobic Inoculum: activated sludge, non-adapted Result: Readily biodegradable. Biodegradation: 95 % Biodegradability f. aerobic Biodegradability f. Remarks: Not applicable Bioaccumulative potential f. aerobic OECD Test Guideline 117 Components: Method: OECD Test Guideline 117 Octanol/water f. Method: OECD Test Guideline 117 GLP: yes f. Method: OECD Test Guideline 117 Cellulose: f. Remarks: No data available octanol/water f. Remarks: No data available Datacoumulation f. Remarks: And data available Partition coefficient: n- f. log Pow: -5.01 octanol/water f. gopour: -5.01 Bioaccumulation f. Species: Cyprinus carpio (Carp) Bioaccumulation f. Species: Cyprinus c		Result: Not Exposure ti Method: OB	readily biodegradable. me: 28 d
Suffuric acid monododecyl ester sodium salt (1:1): Biodegradability :::: aerobic Incoculum: activated sludge, non-adapted Result: Readily biodegradable. Biodegradation: 95 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes Titanium oxide (TiO2): Biodegradability ::: Remarks: Not applicable Bioaccumulative potential Components: Vismodegib: Partition coefficient: n- :: log Pow: 1.59 octanol/water Method: OECD Test Guideline 117 GLP: yes Partition coefficient: n- :: log Pow: 1.59 octanol/water Method: OECD Test Guideline 117 GLP: yes Partition coefficient: n- :: Remarks: No data available octanol/water : log Pow: -5.01 Bioaccumulation :: Remarks: anhydrous substance Suffuric acid monododecyl ester sodium salt (1:1): Bioaccumulation : Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 3.9 - 5.3 Exposure time: 3 d Partition coefficient: n- : log Pow: -2.03 (68 °F / 20 °C) Bioconcentration factor (BC	-		lo data available
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octanol/water Method: OECD Test Guideline 107 Talc (Mg3H2(SiO3)4):	Bioaccumulation	Bioconcent	ration factor (BCF): 3.9 - 5.3
Partition coefficient: n- : Remarks: No data available	Talc (Mg3H2(SiO3	3)4):	
			lo data available

ERIVEDGE(R)) Capsules ((150 mg)		
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octanol/water				
Titanium oxid Partition coeffi octanol/water		: Remarks: No da	ita available	
Mobility in so	il			
Components:				
Vismodegib: Distribution am mental compar	•	Medium: Soil Koc: 2129 - 500 Method: OECD Remarks: Slight Koc method Medium: Sludge Koc: 684 - 895 r	Test Guideline 106 ly mobile in soils	
Other adverse	e effects			
Product:				
Ozone-Depleti	on Potential :	tection of Strato Substances Remarks: This p tured with a Clas	CFR Protection of Environment; Part 8 spheric Ozone - CAA Section 602 Cla product neither contains, nor was mar ss I or Class II ODS as defined by the ection 602 (40 CFR 82, Subpt. A, App	ass I nufac- e U.S.
Additional ecol mation	ogical infor- :	unprofessional h	al hazard cannot be excluded in the e nandling or disposal. uatic life with long lasting effects.	event of
Components:				
Talc (Mg3H2(Adsorbed orga halogens (AO)	nic bound :	Remarks: Not a	oplicable	
Additional ecol mation	ogical infor- :	No data availab	e	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container.

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	Send to a licer	nsed waste management company.
Contaminated packa	Dispose of as Empty contain handling site f	ing contents. unused product. ers should be taken to an approved waste or recycling or disposal. empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
i ispoi ompping name	•	N.O.S. (Vismodegib (35%) mixture)
Class	:	9
Packing group	:	III
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Vismodegib (35%) mixture)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Vismodegib (35%) mixture)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Trenewert in built coordina	4.	Anney II of MADDOL 72/79 and the IDC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR		
UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Vismodegib (35%) mixture)
Class	:	9
Packing group	:	III

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Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	no

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	arcinogenicity eproductive toxicity pecific target organ toxicity (single or re	peated exposure)
SARA 313	is material does not contain any chemi own CAS numbers that exceed the thre porting levels established by SARA Titl	eshold (De Minimis)

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know	
Cellulose	9004-34-6
Pennsylvania Right To Know	
Vismodegib	879085-55-9
Cellulose	9004-34-6

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Gelatins	9000-70-8
Lactose-1-Hydrate	64044-51-5
Starch, carboxymethyl ether, sodium salt	9063-38-1

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium oxide (TiO2), which is/are known to the State of California to cause cancer, and Vismodegib, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances			
2-Pyrrolidinone, 1-	2-Pyrrolidinone, 1-ethenyl-, homopolymer		9003-39-8
California Permissible Exp	osu	re Limits for Chemical Contaminants	
Cellulose			9004-34-6
California Regulated Carci	nog	ens	
Talc (Mg3H2(SiO3	3)4)		14807-96-6
The ingredients of this pro	duc	t are reported in the following invento	ries:
AIIC	:	Not in compliance with the inventory	
DSL	:	This product contains the following cor on the Canadian DSL nor NDSL.	nponents that are not
		Vismodegib	
NZIoC	:	Not in compliance with the inventory	
ENCS	:	Not in compliance with the inventory	
ISHL	:	Not in compliance with the inventory	
KECI	:	Not in compliance with the inventory	
PICCS	:	Not in compliance with the inventory	
IECSC	:	Not in compliance with the inventory	
TCSI	:	Not in compliance with the inventory	
TSCA	:	Product contains substance(s) not liste	ed on TSCA inventory.
TECI	:	Not in compliance with the inventory	

TSCA list

No substances are subject to a Significant New Use Rule.

ERIVEDGE(R) Capsules (150 mg)

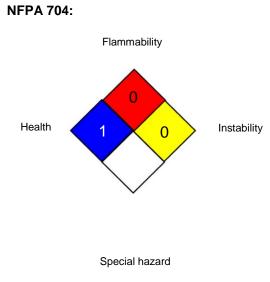
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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH NIOSH REL OSHA CARC OSHA P0	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits OSHA Specifically Regulated Chemicals/Carcinogens USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted 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

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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 Amendments 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

The GHS classification for skin irritation and/or sensitization of the pure ingredients causes a corresponding GHS classification for the whole formulation. In view of the nature of the formulated product (film-coated tablet, capsule, etc.) an over-interpretation of the potential hazard is possible.

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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