according to the OSHA Hazard Communication Standard



### BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version 2.1	Revision Date: 04/11/2024		DS Number: MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
SECTION 1	. IDENTIFICATION			
Produc	t name	:	BAVENCIO® (ave	elumab) 200 mg (20 mg/mL)
Manufa	acturer or supplier's o	deta	nils	
Compa	ny nsible Department		EMD Serono, Inc. One Technology F MA-02370 Rockla United States of A	Place nd
	ency telephone num-		800-424-9300 CH +1-703-527-3887	EMTREC (USA) CHEMTREC (International) NUTEC (Canada)
Recom	mended use of the c	hen	nical and restriction	ons on use
Recom	mended use	:	finished pharmace	eutical

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

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

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

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

Substance / Mixture : Mixture

Chemical nature : Aqueous solution

#### Components

No hazardous ingredients

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

General advice	:	Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

©2024 Merck KGaA, Darmstadt, Germany or its affiliates. All rights reserved. EMD Serono is the Healthcare business of Merck KGaA, Darmstadt, Germany in the U.S. and Canada. BAVENCIO is a registered trademark of Merck KGaA, Darmstadt, Germany or its affiliates.

according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version 2.1	Revision Date: 04/11/2024	SDS Number: 90MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023		
In case of skin contact			er. rsist, call a physician. taminated clothing immediately.		
In case of eye contact		Protect unharm	<ul> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>		
If swallowed		Never give any	y tract clear. < or alcoholic beverages. thing by mouth to an unconscious person. rsist, call a physician.		
and	st important symptoms effects, both acute and ayed	: None known.			
Not	es to physician	: Treat symptom	atically.		

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	:	Not combustible.
		Ambient fire may liberate hazardous vapours.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	<ul> <li>Advice for non-emergency personnel:</li></ul>
tive equipment and emer-	Do not breathe vapours, aerosols. <li>Evacuate the danger area, observe emergency procedures, consult an expert.</li> <li>Advice for emergency responders:</li>
gency procedures	Use personal protective equipment. <li>Dispose of promptly.</li> <li>Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.</li> <li>Indications about waste treatment see section 13.</li>

according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Vers 2.1	sion	Revision Date: 04/11/2024		DS Number: MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
	Environmental precautions		:	If the product con respective author	taminates rivers and lakes or drains inform ties.
		ls and materials for ment and cleaning up	:		orbent material (e.g. cloth, fleece). closed containers for disposal.
SEC	TION 7	. HANDLING AND ST	OR	AGE	
	Techni	cal measures	:		e equipment and wear appropriate personal ent (see "8. Exposure control/personal pro-
	Local/T	otal ventilation	:	Ensure adequate	ventilation.
		on protection against l explosion	:	Normal measures	for preventive fire protection.
	Advice	on safe handling	:		ection see section 8. and drinking should be prohibited in the ap-
				Observe label pre	cautions.
	Conditi	ons for safe storage	:	Electrical installat the technological	ions / working materials must comply with safety standards.
				Keep container tig place.	phtly closed in a dry and well-ventilated
	Materia	als to avoid	:	No materials to be	e especially mentioned.
	Further age sta	information on stor- bility	:	No decompositior	n if stored and applied as directed.

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

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Technical measures and appropriate working operations
		should be given priority over the use of personal protective
		equipment.

Personal protective equipment					
Respiratory protection	:	required when vapours/aerosols are generated.			
Filter type	:	filter ABEK			
Hand protection					



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

ersion	Revision Date: 04/11/2024		S Number: MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
М	aterial	:		nent only chosen according to specific regu- nts after a risk assessment.
Eye p	protection	:	Safety glasses	
Skin	and body protection	:	Protective suit	
Prote	ective measures	:		ective equipment must be selected according ion and amount of the dangerous substance orkplace.
Hygie	ene measures	:	General industria	Il hygiene practice.
ECTION	9. PHYSICAL AND CH	EMI	CAL PROPERTIE	S
Арре	arance	:	liquid	
Colou	ır	:	colourless	
Odou	ır	:	not significant	
Odou	ır Threshold	:	Not applicable	
pН		:	weakly acid	
Meltir	ng point/range	:	ca. 32 °F / 0 °C	
Boilin	ng point/boiling range	:	ca. 212 °F / 100	°C
			ca. 212 °F / 100 (1,013 hPa)	°C
Flash	n point	:	Not applicable	
Flam	mability (liquids)	:	The product is r	ot flammable.
	er explosion limit / Upper nability limit	:	Not applicable	
	er explosion limit / Lower nability limit	:	Not applicable	
Vapo	our pressure	:	No data availab	e
Dens	ity	:	ca. 1 g/cm3 (68	°F / 20 °C)
			1.02 g/cm3 (68	

according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version 2.1	Revision Date: 04/11/2024		S Number: MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
	ility(ies) ater solubility	:	soluble	
	on coefficient: n- bl/water	:	Not applicable	
			Not applicable	
Viscos Vis	sity scosity, kinematic	:	No data availabl	e
Explo	sive properties	:	Not classified as	explosive.
Oxidiz	ing properties	:	none	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	Violent reactions possible with: The generally known reaction partners of water.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Product:

Remarks : No da
-----------------

according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

sion	Revision Date: 04/11/2024		Number: DGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
Serio	ous eye damage/eye	irritatio	n	
Not c	lassified due to lack o	of data.		
Prod	uct:			
Rema	arks	: 1	No data available	
Resp	iratory or skin sens	itisation		
Skin	sensitisation			
Not c	lassified due to lack o	of data.		
-	iratory sensitisatior lassified due to lack o			
Prod	uct:			
Rema		: 1	No data available	
	<b>cell mutagenicity</b> lassified due to lack o	of data.		
Prod	uct:			
	toxicity in vitro	: F	Remarks: No data	a available
Geno	toxicity in vivo	: F	Remarks: No data	a available
Carci	nogenicity			
Not c IARC		nent of th		nt at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSH			nis product prese egulated carcinog	nt at levels greater than or equal to 0.1% i ens.
NTP				nt at levels greater than or equal to 0.1% i carcinogen by NTP.
-	oductive toxicity			
	lassified due to lack o	of data.		
	F - single exposure lassified due to lack of lassified due to lack of	of data.		
	<b>- repeated exposu</b> lassified due to lack o			
	ated dose toxicity	n uala.		
Prod	uct:			
	arks		No data available	

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version 2.1	Revision Date: 04/11/2024	SDS Number: 90MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023		
Furth	er information				
Produ	uct:				
Rema	arks	: Physiologically a Symptoms may	active substance. be delayed.		
Remarks		: Handle in accord practice.	· · · · · · · · · · · · · · · · · · ·		

#### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Product:	_	Demorke: Ne dete eveileble
Toxicity to fish	•	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to fish (Chronic tox- icity)	:	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Persistence and degradability	y	
No data available	-	
<b>Bioaccumulative potential</b> No data available		
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Pro- tection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufac- tured 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).

according to the OSHA Hazard Communication Standard



### BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version Revision Date: 2.1 04/11/2024

SDS Number: 90MDGM353351 Date of last issue: 11/13/2023 Date of first issue: 01/30/2023

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging	:	The hazard and precautionary statements displayed on the label also apply to any residues left in the container. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Packaging that is not properly emptied must be disposed of as the unused product.

#### **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.

#### **National Regulations**

#### Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

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

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the 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 : No SARA Hazards

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



## BAVENCIO® (avelumab) 200 mg (20 mg/mL)

rsion	Revision Date: 04/11/2024	SDS Number: 90MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
SAR	A 313	known CAS nur	es not contain any chemical components wit nbers that exceed the threshold (De Minimis) established by SARA Title III, Section 313.
Clear	Air Act		
the U This p Air Ac This p Accid This p	S. Clean Air Act Sector product does not contact to Section 112 (40 CF product does not contact ental Release Prevent product does not contact	ion 602 (40 CFR 82, Su ain any hazardous air p R 61). ain any chemicals listed tion (40 CFR 68.130, S	under the U.S. Clean Air Act Section 112(r) ubpart F). ubpart F).
Clear	Water Act		
The for ble 11	•	ubstances are listed un 64-19-7	der the U.S. CleanWater Act, Section 311, T >= $0 - < 0.1 \%$
The fo 117.3	:	hemicals are listed und	er the U.S. CleanWater Act, Section 311, Ta
307			>= 0 - < 0.1 % isted under the U.S. Clean Water Act Sectio s related to the U.S. Clean Water Act
	ate Regulations	an any phoney polician	
	achusetts Right To I	Know	
	Anti-PD-L1		42640
Penn	sylvania Right To Ki	now	
	water D-mannitol acetic acid		7732-18-5 69-65-8 64-19-7
Maine	e Chemicals of High	Concern	
	Anti-PD-L1		42640
Verm	ont Chemicals of Hi Anti-PD-L1	gh Concern	42640
Wash	ington Chemicals o Anti-PD-L1	f High Concern	42640
The c		product are reported in	the following inventories:
TCSI		-	ce with the inventory
TSCA		: Product contain	s substance(s) not listed on TSCA inventory.
AIIC		: Not in complian	ce with the inventory
			ntains the following components that are not

### SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



### BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version 2.1	Revision Date: 04/11/2024		DS Number: MDGM353351	Date of last issue: 11/13/2023 Date of first issue: 01/30/2023
			Anti-PD-L1	
ENCS		:	Not in compliance	e with the inventory
ISHL		:	: Not in compliance with the inventory	
KECI		:	: Not in compliance with the inventory	
PICCS	3	:	Not in compliance with the inventory	
IECSC	:	: Not in compliance with the inventory		e with the inventory
NZIoC		: On the inventory, or in compliance with the inventory		or in compliance with the inventory
TECI		:	: Not in compliance with the inventory	

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

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

#### SECTION 16. OTHER INFORMATION

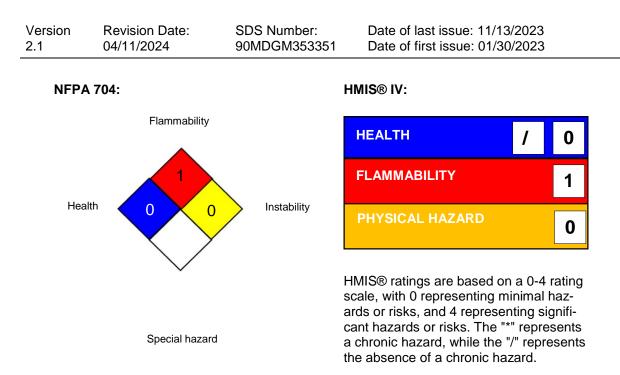
#### Company internal Occupational Exposure Limit (MOEL)

	:	24 μg/m3
Short Term Exposure (15 min) Factor	:	8
Pregnancy risk groups	:	D Either there are no data for an assessment of damage to the embryo, or foetus or the currently available data are not suffi- cient for classification in one of the other groups.
Further information		

according to the OSHA Hazard Communication Standard



### BAVENCIO® (avelumab) 200 mg (20 mg/mL)



#### Full text of other abbreviations

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 Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Con-

according to the OSHA Hazard Communication Standard



### BAVENCIO® (avelumab) 200 mg (20 mg/mL)

Version	Revision Date:	SDS Number:	Date of last issue: 11/13/2023
2.1	04/11/2024	90MDGM353351	Date of first issue: 01/30/2023

trol Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

: 04/11/2024

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.

US / EN