according to the OSHA Hazard Communication Standard



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

| Version<br>2.1 | Revision Date:<br>04/11/2024 |      | DS Number:<br>MDGM353351  | Date of last issue: 11/13/2023<br>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<br>nsible Department      |      | EMD Serono, Inc.<br>One Technology F<br>MA-02370 Rockla<br>United States of A | Place<br>nd   |
|                | ency telephone num-          |      | 800-424-9300 CH<br>+1-703-527-3887  | EMTREC (USA)<br>CHEMTREC (International)<br>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<br>advice.<br>If symptoms persist, call a physician. |

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|-------------------------|--|-----------------------------|--|--|--|
| In case of skin contact |  |                             | er.<br>rsist, call a physician.<br>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.<br>< or alcoholic beverages.<br>thing by mouth to an unconscious person.<br>rsist, call a physician.                  |  |  |
| and                     | st important symptoms<br>effects, both acute and<br>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-<br>cumstances and the surrounding environment.   |
|---|---|--|
| Specific hazards during fire-<br>fighting     | : | Not combustible.   |
|   |   | Ambient fire may liberate hazardous vapours.   |
| Hazardous combustion prod-<br>ucts            | : | No hazardous combustion products are known   |
| Further information                           | : | Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if nec-<br>essary.<br>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



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|-------------|---------------------------|--|----|--|--|
|             | Environmental precautions |  | :  | If the product con respective author   | taminates rivers and lakes or drains inform ties.  |
|             |                           | ls and materials for<br>ment and cleaning up | :  |  | orbent material (e.g. cloth, fleece).<br>closed containers for disposal.                 |
| SEC         | TION 7                    | . HANDLING AND ST                            | OR | AGE                                    |  |
|             | Techni                    | cal measures                                 | :  |  | e equipment and wear appropriate personal<br>ent (see "8. Exposure control/personal pro- |
|             | Local/T                   | otal ventilation                             | :  | Ensure adequate                        | ventilation.   |
|             |                           | on protection against<br>l explosion         | :  | Normal measures                        | for preventive fire protection.  |
|             | Advice                    | on safe handling                             | :  |  | ection see section 8.<br>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<br>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-<br>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               |   |   |  |  |  |



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|--------|--|-----|---------------------------------|---|
| М      | aterial                                      | :   |                                 | nent only chosen according to specific regu-<br>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<br>ion and amount of the dangerous substance<br>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<br>(1,013 hPa) | °C  |
| Flash  | n point                                      | :   | Not applicable                  |   |
| Flam   | mability (liquids)                           | :   | The product is r                | ot flammable.   |
|        | er explosion limit / Upper<br>nability limit | :   | Not applicable                  |   |
|        | er explosion limit / Lower<br>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                  |   |

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|----------------|--------------------------------|---|-------------------------|---|
|                | ility(ies)<br>ater solubility  | : | soluble                 |   |
|                | on coefficient: n-<br>bl/water | : | Not applicable          |   |
|                |                                |   | Not applicable          |   |
| Viscos<br>Vis  | sity<br>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-<br>tions | : | Violent reactions possible with:<br>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 |
|-----------------|
|-----------------|

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|---------------|---|------------|--|--|
| 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<br>lassified due to lack o                            |            |  |  |
| Prod          | uct:  |            |  |  |
| Rema          |   | : 1        | No data available                      |  |
|               | <b>cell mutagenicity</b><br>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<br>IARC |   | nent of th |  | nt at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC. |
| OSH           |   |            | nis product prese<br>egulated carcinog | nt at levels greater than or equal to 0.1% i<br>ens.                             |
| NTP           |   |            |  | nt at levels greater than or equal to 0.1% i<br>carcinogen by NTP.               |
| -             | oductive toxicity   |            |  |  |
|               | lassified due to lack o   | of data.   |  |  |
|               | F - single exposure<br>lassified due to lack of<br>lassified due to lack of | of data.   |  |  |
|               | <b>- repeated exposu</b><br>lassified due to lack o                         |            |  |  |
|               | ated dose toxicity  | n uala.    |  |  |
| Prod          | uct:  |            |  |  |
|               | arks  |            | No data available                      |  |

Not classified due to lack of data.

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|----------------|------------------------------|-------------------------------------|---|--|--|
| Furth          | er information               |                                     |   |  |  |
| Produ          | uct:                         |                                     |   |  |  |
| Rema           | arks                         | : Physiologically a<br>Symptoms may | active substance.<br>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-<br>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><br>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-<br>tection of Stratospheric Ozone - CAA Section 602 Class I<br>Substances<br>Remarks: This product neither contains, nor was manufac-<br>tured with a Class I or Class II ODS as defined by the U.S.<br>Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |

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#### SECTION 13. DISPOSAL CONSIDERATIONS

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

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|--|---|---|---|
| SAR  | A 313   | known CAS nur   | es not contain any chemical components wit<br>nbers that exceed the threshold (De Minimis)<br>established by SARA Title III, Section 313. |
| Clear  | Air Act   |   |   |
| the U<br>This p<br>Air Ac<br>This p<br>Accid<br>This p | S. Clean Air Act Sector<br>product does not contact<br>to Section 112 (40 CF<br>product does not contact<br>ental Release Prevent<br>product does not contact | ion 602 (40 CFR 82, Su<br>ain any hazardous air p<br>R 61).<br>ain any chemicals listed<br>tion (40 CFR 68.130, S | under the U.S. Clean Air Act Section 112(r)<br>ubpart F).<br>ubpart F).   |
| Clear  | Water Act   |   |   |
| The for<br>ble 11                                      | •   | ubstances are listed un<br>64-19-7  | der the U.S. CleanWater Act, Section 311, T<br>>= $0 - < 0.1 \%$  |
| The fo<br>117.3  | :   | hemicals are listed und   | er the U.S. CleanWater Act, Section 311, Ta   |
| 307  |   |   | >= 0 - < 0.1 %<br>isted under the U.S. Clean Water Act Sectio<br>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<br>D-mannitol<br>acetic acid  |   | 7732-18-5<br>69-65-8<br>64-19-7   |
| Maine  | e Chemicals of High   | Concern   |   |
|  | Anti-PD-L1  |   | 42640   |
| Verm   | ont Chemicals of Hi<br>Anti-PD-L1   | gh Concern  | 42640   |
| Wash   | ington Chemicals o<br>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  |

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|----------------|------------------------------|---|--|---|
|                |                              |   | 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

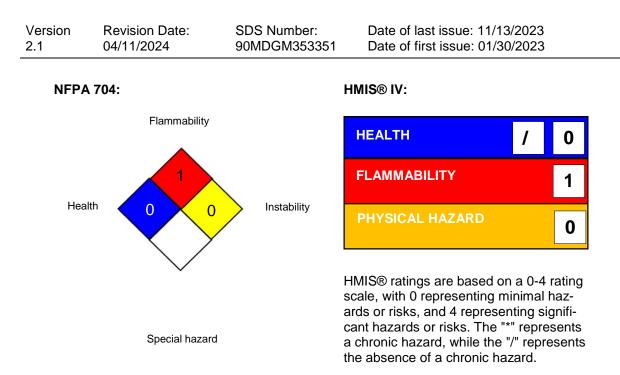
#### Company internal Occupational Exposure Limit (MOEL)

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

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#### 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-

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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.

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