

# Safety Data Sheet

acc. to OSHA HCS

Revision date 08/02/2020

# **1** Identification · Product identifier · Trade name: IgG (rabbit) Monoclonal Antibody · Synonym Immunoglobulin G · Article number: 32105 • Application of the substance For research use only - not for human or veterinary use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS). · Label elements · GHS label elements None · Hazard pictograms None · Signal word None · Hazard statements None · Classification system: • NFPA ratings (scale 0 - 4) Health = 0Fire = 1Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 0 Health = 0 FIRE 1 Fire = 1REACTIVITY 0 Reactivity = 0 · Other hazards Results of PBT and vPvB assessment · PBT: Not applicable.

• **vPvB:** Not applicable.

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| • Chemical characteria<br>• Description: Mixture | zation: Mixtures<br>of the substances listed below with nonhazardous additions. |         |
|--|---|---------|
| Dangerous compone                                |   |         |
| CAS: 56-81-5<br>RTECS: MA8050000                 | Glycerol  | 50.0%   |
| CAS: 9048-46-8<br>RTECS: MT6446000               | Albumin, bovine   | 1.0%    |
| · Other ingredients                              |   |         |
| CAS: 7732-18-5<br>RTECS: ZC0110000               | Water   | 47.914% |
| CAS: 7647-14-5<br>RTECS: VZ4725000               | Sodium chloride   | 0.85%   |
| CAS: 7558-79-4<br>RTECS: WC4500000               | Sodium phosphate, Dibasic   | 0.106%  |
| CAS: 26628-22-8<br>RTECS: VY8050000              | Sodium azide  | 0.09%   |
| CAS: 7778-77-0<br>RTECS: TC6615500               | Potassium phosphate, Monobasic  | 0.03%   |
|  | IgG (rabbit) Monoclonal Antibody  | 0.01%   |

# **4 First-aid measures**

Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:

• **Most important symptoms and effects, both acute and delayed** May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

• Protective equipment: No special measures required.

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| 6 Accidenta  | al release measures  |                         |
|--|--|-------------------------|
| Environmen<br>Dilute with p<br>Do not allow<br>Methods ar<br>Absorb with<br>Reference t<br>See Section<br>See Section<br>See Section | recautions, protective equipment and emergency procedures Not require<br>that precautions:<br>lenty of water.<br>to enter sewers/ surface or ground water.<br><b>Ind material for containment and cleaning up:</b><br>liquid-binding material (sand, diatomite, acid binders, universal binders, saw<br>to other sections<br>7 for information on safe handling.<br>8 for information on personal protection equipment.<br>13 for disposal information.<br>Action Criteria for Chemicals |                         |
| · PAC-1:   |  |                         |
| 56-81-5  | Glycerol   | 45 mg/m³                |
| 26628-22-8   | Sodium azide   | 0.026 mg/m <sup>3</sup> |
| 7778-77-0  | Potassium phosphate, Monobasic   | 9.6 mg/m³               |
| · PAC-2:   |  |                         |
| 56-81-5  | Glycerol   | 180 mg/m³               |
| 26628-22-8   | Sodium azide   | 0.29 mg/m³              |
| 7778-77-0  | Potassium phosphate, Monobasic   | 110 mg/m³               |
| · PAC-3:   |  |                         |
| 56-81-5  | Glycerol   | 1,100 mg/m <sup>3</sup> |
| 26628-22-8   | Sodium azide   | 5.3 mg/m³               |
| 7778-77-0  | Potassium phosphate, Monobasic   | 630 mg/m³               |

# 7 Handling and storage

· Handling:

- Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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| •  | t require monitoring at the workplace:  |
|--|---|
| 56-81-5 Glycerol   |   |
| PEL Long-term value: 15* 5** mg/m<br>mist; *total dust **respirable fra  |   |
| · · ·  |   |
| TLV TLV withdrawn-insufficient data  | hat were valid during the creation were used as basis.  |
|  | lat were valid during the creation were used as basis.  |
| Exposure controls<br>Personal protective equipment:  |   |
| General protective and hygienic m  | neasures.   |
|  | or handling chemicals should be followed.   |
| Breathing equipment: Not required  | l.  |
| Protection of hands:   | and an interest to the made of the cubetones (the mean and  |
|  | neable and resistant to the product/ the substance/ the preparation to the glove material can be given for the product/   |
| preparation/ the chemical mixture.   |   |
| Selection of the glove material on   | consideration of the penetration times, rates of diffusion and  |
| degradation  |   |
| Material of gloves   | does not only depend on the material, but also on further mark  |
|  | irer to manufacturer. As the product is a preparation of sev  |
|  | ove material can not be calculated in advance and has therefor  |
| be checked prior to the application.   |   |
|  |   |
| Penetration time of glove material   |   |
| The exact break through time has to  |   |
| The exact break through time has to to be observed.  | be found out by the manufacturer of the protective gloves and   |
| The exact break through time has to  | be found out by the manufacturer of the protective gloves and   |
| The exact break through time has to<br>to be observed.<br><b>Eye protection:</b> Goggles recommer  | b be found out by the manufacturer of the protective gloves and nded during refilling.  |
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| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope  | b be found out by the manufacturer of the protective gloves and<br>nded during refilling.<br>erties   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information  | b be found out by the manufacturer of the protective gloves and<br>nded during refilling.<br>erties   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:   | b be found out by the manufacturer of the protective gloves and<br>nded during refilling.<br>erties<br>I chemical properties  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:  | b be found out by the manufacturer of the protective gloves and<br>nded during refilling.<br>erties<br>I chemical properties<br>Fluid   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:  | be found out by the manufacturer of the protective gloves and<br>inded during refilling.<br>erties<br>I chemical properties<br>Fluid<br>According to product specification  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical proper<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:  | be found out by the manufacturer of the protective gloves and<br>inded during refilling.<br>erties<br>I chemical properties<br>Fluid<br>According to product specification<br>Characteristic  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:  | be found out by the manufacturer of the protective gloves and<br>inded during refilling.<br>erties<br>I chemical properties<br>Fluid<br>According to product specification<br>Characteristic<br>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical proper<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer  | be found out by the manufacturer of the protective gloves and<br>inded during refilling.<br>erties<br>I chemical properties<br>Fluid<br>According to product specification<br>Characteristic  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical proper<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:   | be found out by the manufacturer of the protective gloves and<br>inded during refilling.<br>erties<br>I chemical properties<br>Fluid<br>According to product specification<br>Characteristic<br>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide<br>Not determined.  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:  | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid<br/>According to product specification<br/>Characteristic<br/>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide<br/>Not determined.<br/>100 µg of protein G-affinity purified monoclonal antibody</li> </ul>   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:<br>Change in condition   | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid<br/>According to product specification<br/>Characteristic<br/>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide<br/>Not determined.</li> <li>100 μg of protein G-affinity purified monoclonal antibody<br/>Not determined.</li> </ul>  |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:  | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid<br/>According to product specification<br/>Characteristic<br/>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide<br/>Not determined.<br/>100 µg of protein G-affinity purified monoclonal antibody</li> </ul>   |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical proper<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:<br>Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range:                | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid <ul> <li>According to product specification</li> <li>Characteristic</li> <li>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide</li> <li>Not determined.</li> <li>100 μg of protein G-affinity purified monoclonal antibody</li> <li>Not determined.</li> <li>Undetermined.</li> <li>Undetermined.</li> <li>Undetermined.</li> <li>100 °C (212 °F)</li> </ul> </li> </ul> |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical prope<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:<br>Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range:<br>Flash point: | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid <ul> <li>According to product specification</li> <li>Characteristic</li> <li>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide</li> <li>Not determined.</li> <li>100 µg of protein G-affinity purified monoclonal antibody</li> <li>Not determined.</li> <li>Undetermined.</li> <li>100 °C (212 °F)</li> <li>199 °C (390.2 °F)</li> </ul> </li> </ul>                    |
| The exact break through time has to<br>to be observed.<br>Eye protection: Goggles recommer<br>Physical and chemical proper<br>Information on basic physical and<br>General Information<br>Appearance:<br>Form:<br>Color:<br>Odor:<br>Storage Buffer<br>Odor threshold:<br>Formulation<br>pH-value:<br>Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range:                | <ul> <li>be found out by the manufacturer of the protective gloves and inded during refilling.</li> <li>erties</li> <li>I chemical properties</li> <li>Fluid <ul> <li>According to product specification</li> <li>Characteristic</li> <li>PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide</li> <li>Not determined.</li> <li>100 μg of protein G-affinity purified monoclonal antibody</li> <li>Not determined.</li> <li>Undetermined.</li> <li>Undetermined.</li> <li>Undetermined.</li> <li>100 °C (212 °F)</li> </ul> </li> </ul> |

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|                                     | (Contd. from page                               |
|-------------------------------------|---|
| Auto igniting:                      | Product is not selfigniting.                    |
| Danger of explosion:                | Product does not present an explosion hazard.   |
| Explosion limits:                   |   |
| Lower:                              | Not determined.                                 |
| Upper:                              | Not determined.                                 |
| · Vapor pressure at 20 °C (68 °F):  | 23 hPa (17.3 mm Hg)                             |
| Density at 20 °C (68 °F):           | 0.99795–1.00205 g/cm³ (8.32789–8.36211 lbs/gal) |
| Bulk density:                       | 998–1,002 kg/m³                                 |
| Relative density                    | Not determined.                                 |
| Vapor density                       | Not determined.                                 |
| Evaporation rate                    | Not determined.                                 |
| Solubility in / Miscibility with    |   |
| Water:                              | Fully miscible.                                 |
| Partition coefficient (n-octanol/wa | ter): Not determined.                           |
| Viscosity:                          |   |
| Dynamic:                            | Not determined.                                 |
| Kinematic:                          | Not determined.                                 |
| Solvent content:                    |   |
| Organic solvents:                   | 50.0 %  |
| Water:                              | 47.9 %  |
| VOC content:                        | 0.00 %  |
|                                     | 0.0 g/l / 0.00 lb/gal                           |
| Solids content:                     | 1.1 %   |
| Other information                   | No further relevant information available.      |

# **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information • Information on toxicological effects • Acute toxicity: • LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 50,000 mg/kg (Contd. on page 6)

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| 56-81-5 Glycero    |                      |                     |
|--------------------|----------------------|---------------------|
| Oral               | LD50                 | 12,600 mg/kg (rat)  |
| Irritation of skin | Irritation           | 500 mg/24h (rabbit) |
| Irritation of eyes | Irritation           | 500 mg/24h (rabbit) |
|                    | Intraperitoneal LD50 | 4,420 mg/kg (rat)   |
|                    | Subcutaneous LD50    | 100 mg/kg (rat)     |
| 9048-46-8 Albur    | nin, bovine          |                     |
|                    | Intraperitoneal TDLO | 0.2 pph (mouse)     |
| 26628-22-8 Sod     | ium azide            |                     |
| Oral               | LDLO                 | 27 mg/kg (rat)      |
|                    | TDLO                 | 3 ml/kg (wmn)       |
|                    | LD50                 | 27 mg/kg (rat)      |
|                    | Subcutaneous LD50    | 45,100 μg/kg (rat)  |
| Dermal             | LD50                 | 50 mg/kg (rat)      |
|                    |                      | 20 mg/kg (rabbit)   |
| Inhalative         | LC50                 | 37 mg/m³ (rat)      |
|                    | Subcutaneous LD50    | 45,100 μg/kg (rat)  |
|                    | Interperitoneal LDLO | 30 mg/kg (rat)      |
|                    | Intraperitoneal LD50 | 28 mg/kg (mouse)    |
|                    | Subcutaneous LD50    | 45 mg/kg (rat)      |
|                    | Data                 | 5,500 mg/kg (mouse) |
| Primary irritant   | effect:              |                     |
| on the skin: No    |                      |                     |

· Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### Carcinogenic categories

| ·IARC | (Inte | rnat | ional | Ag | er | ıcy | foi | r Research on Cancer) |
|-------|-------|------|-------|----|----|-----|-----|-----------------------|
|       |       |      |       |    |    |     |     |                       |

None of the ingredients is listed.

# · NTP (National Toxicology Program)

None of the ingredients is listed.

# · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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### Trade name: IgG (rabbit) Monoclonal Antibody

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Results of PBT and vPvB assessment

• **PBT:** Not applicable.

**vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

| 14 | ranspo | nt int | ormat  | non |
|----|--------|--------|--------|-----|
|    | ranope |        | VIIIIa |     |

| · UN-Number<br>· DOT, IMDG, IATA  | not regulated         |
|---|-----------------------|
| <ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>                        | not regulated         |
| · Transport hazard class(es)  |                       |
| · DOT, ADN, IMDG, IATA<br>· Class   | not regulated         |
| <ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>                                  | not regulated         |
| · Environmental hazards:  | Not applicable.       |
| · Special precautions for user  | Not applicable.       |
| <ul> <li>Transport in bulk according to Annex II on MARPOL73/78 and the IBC Code</li> </ul> | of<br>Not applicable. |
| · UN "Model Regulation":  | not regulated         |
|   |                       |

# **15 Regulatory information**

 $^{\cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\cdot}$  Sara

· Section 355 (extremely hazardous substances):

26628-22-8 Sodium azide

• Section 313 (Specific toxic chemical listings):

26628-22-8 Sodium azide

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| TSCA (Toxic Substances Control Act):         56-81-5       Glycerol       ACTIVE         7732-18-5       Water       ACTIVE         9048-46-8       Albumin, bovine       ACTIVE         7647-14-5       Sodium chloride       ACTIVE         7558-79-4       Sodium phosphate, Dibasic       ACTIVE         26628-22-8       Sodium azide       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous Air Pollutants       None of the ingredients is listed.       Proposition 65         Chemicals known to cause cancer:       None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         Chemicals known to cause developmental toxicity:       None of the ingredients is listed.       Centrol Agency)         None of the ingredients is listed.       Carcinogenic categories       EPA (Environmental Protection Agency)         None of the ingredients is listed.       TLV (Threshold Limit Value established by ACGIH)       Active         2628-22-8       Sodium azide       Active         NIOSH-Ca (National Institute for Occupational Safety and Health)       None of the ingredients None         Hazard statements   |             |  | (Contd. from page |
|---|-------------|--|-------------------|
| 56-81-5       Glycerol       ACTIVE         7732-18-5       Water       ACTIVE         9048-46-8       Albumin, bovine       ACTIVE         7847-14-5       Sodium chloride       ACTIVE         7558-79-4       Sodium phosphate, Dibasic       ACTIVE         76628-22-8       Sodium azide       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous       Air Pollutants       ACTIVE         None of the ingredients is listed.       Proposition 65       Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:       None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:       None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Carcinogenic categories       EPA (Environmental Protection Agency)         None of the ingredients is listed.       TLV (Threshold Limit Value established by ACGIH)       Active         26628-22-8       Sodium azide       Ar         NIOSH-Ca (National Institute for Occupational Safety and Health)       An         None of the ingredients is listed.       GHS label elements None         Hazard pictograms None       Signal word None <th>TSCA (Toxi</th> <th>c Substances Control Act):</th> <th></th> | TSCA (Toxi  | c Substances Control Act):                             |                   |
| 7732-18-5       Water       ACTIVE         9048-46-8       Albumin, bovine       ACTIVE         9048-46-8       Albumin, bovine       ACTIVE         7647-14-5       Sodium phosphate, Dibasic       ACTIVE         7558-79-4       Sodium phosphate, Dibasic       ACTIVE         26628-22-8       Sodium phosphate, Monobasic       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous       Air Pollutants       ACTIVE         None of the ingredients is listed.       Proposition 65       Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:       None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:       None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         Chemicals known to cause developmental toxicity:       None of the ingredients is listed.       ACTIVE         Chemicals known to cause developmental toxicity:       None of the ingredients is listed.       ACTIVE         Chemicals known to cause developmental toxicity:       None of the ingredients is listed.       ACTIVE         Chemica                             | •           | •  | ACTIVI            |
| 9048-46-8       Albumin, bovine       ACTIVE         7647-14-5       Sodium chloride       ACTIVE         7558-79-4       Sodium phosphate, Dibasic       ACTIVE         7558-79-4       Sodium azide       ACTIVE         778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous Air Pollutants       ACTIVE         None of the ingredients is listed.       Froposition 65         Chemicals known to cause cancer:       None of the ingredients is listed.         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Carcinogenic categories         EPA (Environmental Protection Agency)       None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)       Active for Occupational Safety and Health)         None of the ingredients is listed.       Ar         GHS label elements None       Ar         Signal word None       Signal word None  |             | ,  |                   |
| 7647-14-5       Sodium chloride       ACTIVE         7558-79-4       Sodium phosphate, Dibasic       ACTIVE         26628-22-8       Sodium azide       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous Air Pollutants         None of the ingredients is listed.       Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Carcinogenic categories         EPA (Environmental Protection Agency)       None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)       Ze628-22-8         Sodium azide       A         NIOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.       GHS label elements None         Bignal word None       Signal word None  |             |  |                   |
| 7558-79-4       Sodium phosphate, Dibasic       ACTIVE         26628-22-8       Sodium azide       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous Air Pollutants         None of the ingredients is listed.         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Carcinogenic categories         EPA (Environmental Protection Agency)         None of the ingredients is listed.       TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide       Ar         NIOSH-Ca (National Institute for Occupational Safety and Health)       None of the ingredients is listed.         GHS label elements None       Hazard pictograms None       Signal word None  |             |  |                   |
| 26628-22-8       Sodium azide       ACTIVE         7778-77-0       Potassium phosphate, Monobasic       ACTIVE         Hazardous Air Pollutants       None of the ingredients is listed.       ACTIVE         Proposition 65       Chemicals known to cause cancer:       None of the ingredients is listed.         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:       None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:       None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         Chemicals known to cause developmental toxicity:       None of the ingredients is listed.       Carcinogenic categories         EPA (Environmental Protection Agency)       None of the ingredients is listed.       Active         TLV (Threshold Limit Value established by ACGIH)       Z6628-22-8       Sodium azide       Active         NOSH-Ca (National Institute for Occupational Safety and Health)       None of the ingredients None       Active         GHS label elements None       Hazard pictograms None       Signal word None       Signal word None  |             |  | -                 |
| Hazardous Air Pollutants         None of the ingredients is listed.         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide         NIOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None   |             |  | ACTIVI            |
| None of the ingredients is listed.  Proposition 65  Chemicals known to cause cancer: None of the ingredients is listed.  Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.  Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.  Chemicals known to cause developmental toxicity: None of the ingredients is listed.  Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.  TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide  NONE of the ingredients is listed.  KIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.  GHS label elements None Hazard pictograms None Signal word None  | 7778-77-0   | Potassium phosphate, Monobasic                         | ACTIVI            |
| Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide         NONe of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None  | Hazardous   | Air Pollutants   |                   |
| Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide         None of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None  | None of the | ingredients is listed.                                 |                   |
| None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide NONE of the ingredients is listed. GHS label elements None Hazard pictograms None Signal word None   | Propositior | 1 65   |                   |
| Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8         Sodium azide         None of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None  | Chemicals   | known to cause cancer:                                 |                   |
| None of the ingredients is listed.  Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.  Chemicals known to cause developmental toxicity: None of the ingredients is listed.  Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.  TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide AA NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.  GHS label elements None Hazard pictograms None Signal word None   | None of the | ingredients is listed.                                 |                   |
| Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide AA NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements None Hazard pictograms None Signal word None   | Chemicals   | known to cause reproductive toxicity for females:      |                   |
| None of the ingredients is listed.  Chemicals known to cause developmental toxicity: None of the ingredients is listed.  Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.  TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide Ad NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.  GHS label elements None Hazard pictograms None Signal word None   | None of the | ingredients is listed.                                 |                   |
| Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements None Hazard pictograms None Signal word None   | Chemicals   | known to cause reproductive toxicity for males:        |                   |
| None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide AA NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements None Hazard pictograms None Signal word None   | None of the | ingredients is listed.                                 |                   |
| Carcinogenic categories<br>EPA (Environmental Protection Agency)<br>None of the ingredients is listed.<br>TLV (Threshold Limit Value established by ACGIH)<br>26628-22-8 Sodium azide A<br>NIOSH-Ca (National Institute for Occupational Safety and Health)<br>None of the ingredients is listed.<br>GHS label elements None<br>Hazard pictograms None<br>Signal word None  | Chemicals   | known to cause developmental toxicity:                 |                   |
| EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide         NIOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None   | None of the | ingredients is listed.                                 |                   |
| EPA (Environmental Protection Agency)         None of the ingredients is listed.         TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide         NIOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.         GHS label elements None         Hazard pictograms None         Signal word None   | Carcinogen  | ic categories  |                   |
| None of the ingredients is listed.  TLV (Threshold Limit Value established by ACGIH) 26628-22-8 Sodium azide  NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.  GHS label elements None Hazard pictograms None Signal word None  | -           | -  |                   |
| TLV (Threshold Limit Value established by ACGIH)         26628-22-8       Sodium azide       Ad         NIOSH-Ca (National Institute for Occupational Safety and Health)       None of the ingredients is listed.         GHS label elements None       Hazard pictograms None         Signal word None   | •           |  |                   |
| 26628-22-8       Sodium azide       Additional Institute for Occupational Safety and Health)         None of the ingredients is listed.       GHS label elements None         Hazard pictograms None       Signal word None   | TLV (Thres  | hold Limit Value established by ACGIH)                 |                   |
| None of the ingredients is listed.<br>GHS label elements None<br>Hazard pictograms None<br>Signal word None   | •           | • · ·  | A                 |
| None of the ingredients is listed.<br>GHS label elements None<br>Hazard pictograms None<br>Signal word None   | NIOSH-Ca (  | National Institute for Occupational Safety and Health) |                   |
| Hazard pictograms None<br>Signal word None  |             |  |                   |
| Signal word None  | GHS label e | elements None  |                   |
|   | Hazard pict | ograms None  |                   |
|   |             |  |                   |

# **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- Contact: -
- · Date of preparation / last revision 08/02/2020 / -
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

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Printing date 08/02/2020

Revision date 08/02/2020

### Trade name: IgG (rabbit) Monoclonal Antibody

HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

\* Data compared to the previous version altered.

(Contd. from page 8)

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