

4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Date of issue: 25/04/2024

Version: 3.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Form : Mixture
Product Name : 4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)
Product Code : 109-185-098

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : For in vitro research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact supplier for specific applications.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Jackson ImmunoResearch Laboratories, Inc.
872 West Baltimore Pike
West Grove, PA 19390
T: 800-367-5296, 610-869-4024
F: 610-869-0171
tech@jacksonimmuno.com
www.jacksonimmuno.com

European Contact

Jackson ImmunoResearch Europe LTD
Cambridge House
St Thomas' Place
Ely, Cambridgeshire CB7 4EX, UK
T: +44 (0) 1638 782616
F: +44 (0) 1353 664675
info@jacksonimmuno.com
help@jacksonimmuno.com

Email address for the person responsible for this SDS:

tech@jacksonimmuno.com

1.4. Emergency telephone number

Emergency number : +1-610-869-4024 (USA)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic3 H412

Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard statements (CLP) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements EUH032 - Contact with acids liberates very toxic gas.

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2.3. Other hazards

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|------|--|
| Sodium azide | (CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7 | 0.27 | Acute Tox. 2 (Oral), H300 Acute Tox.1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Sodium phosphate dibasic | (CAS-No.) 7558-79-4 (EC-No.) 231-448-7 | 0.55 | Not classified |
| 4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc _γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins) | (CAS-No.) Not assigned | 1.07 | Not classified |
| Borax (B ₄ Na ₂ O ₇ ·10H ₂ O) substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS-No.) 1303-96-4 (EC-No.) 215-540-4; 603-411-9 (EC Index-No.) 005-011-01-1 | 1.5 | Acute Tox. 4 (Inhalation:dust,mist) H332 Eye Irrit. 2, H319 Repr. 1B, H360 |
| Sodium chloride | (CAS-No.) 7647-14-5 (EC-No.) 231-598-3 | 4.82 | Not classified |
| Albumins, blood serum | (CAS-No.) 9048-46-8 (EC-No.) 232-936-2 | 8.03 | Not classified |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|---|---|-------------------------------|
| Borax (B ₄ Na ₂ O ₇ ·10H ₂ O) | (CAS-No.) 1303-96-4 (EC-No.) 215-540-4; 603-411-9 (EC Index-No.) 005-011-01-1 | (8,5=<C<100) Repr. 1B, H360FD |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Using proper respiratory protection, move the exposed person to fresh air at once. Immediately call a poison center, physician, or emergency medical service.

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|---------------------------------------|---|
| First-aid measures after skin contact | : Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists. |
| First-aid measures after eye contact | : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

- | | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after inhalation | : May be harmful or cause irritation. |
| Symptoms/effects after skin contact | : Prolonged exposure may cause skin irritation. |
| Symptoms/effects after eye contact | : May cause slight irritation to eyes. |
| Symptoms/effects after ingestion | : Ingestion may cause adverse effects. May be harmful if swallowed. |
| Chronic symptoms | : None expected under normal conditions of use. |

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray, dry chemical, foam, carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. Use of heavy stream of water may spread fire. |

5.2. Special hazards arising from the substance or mixture

- | | |
|--|---|
| Fire hazard | : Not considered flammable but may burn at high temperatures. |
| Explosion hazard | : Product is not explosive. |
| Reactivity | : Contact with acids liberates toxic gas. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO ₂). Sodium oxides. Phosphorus oxides. |

5.3. Advice for firefighters

- | | |
|--------------------------------|---|
| Precautionary measures fire | : Exercise caution when fighting any chemical fire. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|------------------|--|
| General measures | : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray). |
|------------------|--|

6.1.1. For non-emergency personnel

- | | |
|----------------------|--|
| Protective equipment | : Use appropriate personal protective equipment (PPE). |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.1.2. For emergency responders

- | | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. |

6.2. Environmental precautions

- | | |
|--|--|
| | : Prevent entry to sewers and public waters. Avoid release to the environment. |
|--|--|

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6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use. Store at 2-8°C (35°F - 46.4°F). Keep/Store away from extremely high temperatures and incompatible materials.
- Incompatible materials : Strong acids, strong bases, strong oxidizers. Heavy metals. Halogenated hydrocarbons.

7.3. Specific end use(s)

For in vitro research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact supplier for specific applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sodium azide (26628-22-8) | | |
|---------------------------|--|--|
| EU | IOELV TWA (mg/m ³) | 0,1 mg/m ³ |
| EU | IOELV STEL (mg/m ³) | 0,3 mg/m ³ |
| EU | Notes | Possibility of significant uptake through the skin |
| Austria | MAK (mg/m ³) | 0,1 mg/m ³ |
| Austria | MAK Short time value (mg/m ³) | 0,3 mg/m ³ |
| Austria | OEL chemical category (AT) | Skin notation |
| Belgium | OEL chemical category (BE) | Skin, Skin notation |
| Bulgaria | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Bulgaria | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Croatia | GVI (granicna vrijednost izloženosti) (mg/m ³) | 0,1 mg/m ³ |
| Croatia | KGVI (kratkotrajna granicna vrijednost izloženosti) (mg/m ³) | 0,3 mg/m ³ |
| Croatia | OEL chemical category (HR) | Skin notation |
| Cyprus | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Cyprus | OEL STEL (mg/m ³) | 0,3 mg/m ³ |

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| | | |
|----------------|--|--|
| Cyprus | OEL chemical category (CY) | Skin-potential for cutaneous absorption |
| France | VLE (mg/m ³) | 0,3 mg/m ³ (restrictive limit) |
| France | VME (mg/m ³) | 0,1 mg/m ³ (restrictive limit) |
| France | OEL chemical category (FR) | Risk of cutaneous absorption |
| Germany | Occupational exposure limit value (mg/m ³) | 0,2 mg/m ³ |
| Gibraltar | Eight hours mg/m ³ | 0,1 mg/m ³ |
| Gibraltar | Short-term mg/m ³ | 0,3 mg/m ³ |
| Gibraltar | OEL chemical category (GI) | Skin notation |
| Greece | OEL TWA (mg/m ³) | 0,3 mg/m ³ |
| Greece | OEL TWA (ppm) | 0,1 ppm |
| Greece | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Greece | OEL STEL (ppm) | 0,1 ppm |
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 0,29 mg/m ³ |
| USA ACGIH | ACGIH Ceiling (ppm) | 0,11 ppm |
| Italy | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Italy | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Italy | OEL chemical category (IT) | skin - potential for cutaneous absorption |
| Latvia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Latvia | OEL chemical category (LV) | skin - potential for cutaneous exposure |
| Spain | VLA-ED (mg/m ³) | 0,1 mg/m ³ (indicative limit value) |
| Spain | VLA-EC (mg/m ³) | 0,3 mg/m ³ |
| Spain | OEL chemical category (ES) | skin - potential for cutaneous absorption |
| Switzerland | KZGW (mg/m ³) | 0,4 mg/m ³ (inhalable dust) |
| Switzerland | MAK (mg/m ³) | 0,2 mg/m ³ (inhalable dust) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0,1 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 0,3 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 0,1 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 0,3 mg/m ³ |
| United Kingdom | WEL chemical category | Potential for cutaneous absorption |
| Czech Republic | Expozicní limity (PEL) (mg/m ³) | 0,1 mg/m ³ |
| Czech Republic | OEL chemical category (CZ) | Potential for cutaneous absorption |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0,1 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Estonia | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Estonia | OEL chemical category (ET) | Sensitizer, Skin notation |
| Finland | HTP-arvo (8h) (mg/m ³) | 0,1 mg/m ³ |
| Finland | HTP-arvo (15 min) | 0,3 mg/m ³ |

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| | | |
|------------|---|---|
| Finland | OEL chemical category (FI) | Potential for cutaneous absorption |
| Hungary | AK-érték | 0,1 mg/m ³ |
| Hungary | CK-érték | 0,3 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0,1 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 0,3 mg/m ³ |
| Ireland | OEL chemical category (IE) | Potential for cutaneous absorption |
| Lithuania | IPRV (mg/m ³) | 0,1 mg/m ³ |
| Lithuania | TPRV (mg/m ³) | 0,3 mg/m ³ |
| Lithuania | OEL chemical category (LT) | Skin notation |
| Luxembourg | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Luxembourg | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Luxembourg | OEL chemical category (LU) | Possibility of significant uptake through the skin |
| Malta | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Malta | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Malta | OEL chemical category (MT) | Possibility of significant uptake through the skin |
| Norway | Grenseverdier (AN) (mg/m ³) | 0,1 mg/m ³ |
| Norway | Grenseverdier (Kortidsverdi) (mg/m ³) | 0,3 mg/m ³ (value from the regulation) |
| Poland | NDS (mg/m ³) | 0,1 mg/m ³ |
| Poland | NDSch (mg/m ³) | 0,3 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Romania | OEL chemical category (RO) | Skin notation |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0,1 mg/m ³ (Sodium azide) |
| Slovakia | NPHV (Hranicná) (mg/m ³) | 0,3 mg/m ³ |
| Slovakia | OEL chemical category (SK) | Potential for cutaneous absorption |
| Slovenia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Slovenia | OEL STEL (mg/m ³) | 0,3 mg/m ³ |
| Slovenia | OEL chemical category (SI) | Potential for cutaneous absorption |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0,1 mg/m ³ |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 0,3 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 0,1 mg/m ³ (indicative limit value) |
| Portugal | OEL STEL (mg/m ³) | 0,3 mg/m ³ (indicative limit value) |
| Portugal | OEL - Ceilings (mg/m ³) | 0,29 mg/m ³ |
| Portugal | OEL - Ceilings (ppm) | 0,11 ppm (vapor) |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |

Borax (B₄Na₂O₇·10H₂O) (1303-96-4)

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| | | |
|----------------|--|--|
| Belgium | Limit value (mg/m ³) | 2 mg/m ³ |
| Belgium | Short time value (mg/m ³) | 6 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 5 mg/m ³ (Boron and its inorganic compounds) |
| Croatia | GVI (granicna vrijednost izloženosti) (mg/m ³) | 5 mg/m ³ |
| Croatia | OEL chemical category (HR) | Reproductive Toxin Category 1B |
| France | VME (mg/m ³) | 5 mg/m ³ |
| France | OEL chemical category (FR) | Reproductive Toxin category 1B |
| Greece | OEL TWA (mg/m ³) | 10 mg/m ³ (Borax) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ (inhalable particulate matter (Borate compounds, inorganic)) |
| USA ACGIH | ACGIH STEL (mg/m ³) | 6 mg/m ³ (inhalable particulate matter (Borate compounds, inorganic)) |
| Spain | VLA-ED (mg/m ³) | 2 mg/m ³ |
| Spain | VLA-EC (mg/m ³) | 6 mg/m ³ |
| Spain | OEL chemical category (ES) | TR1B |
| Switzerland | KZGW (mg/m ³) | 0,8 mg/m ³ (inhalable dust (Tetraborate)) |
| Switzerland | MAK (mg/m ³) | 0,8 mg/m ³ (inhalable dust (Tetraborates)) |
| Switzerland | OEL chemical category (CH) | Category 1B developmental toxin, Category 1B reproductive toxin |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 15 mg/m ³ (calculated) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 2 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Estonia | OEL STEL (mg/m ³) | 5 mg/m ³ |
| Estonia | OEL chemical category (ET) | Skin notation |
| Hungary | OEL chemical category (HU) | Repr1B |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ (Borates) |
| Ireland | OEL (15 min ref) (mg/m ³) | 6 mg/m ³ (calculated (Borates)) |
| Lithuania | IPRV (mg/m ³) | 2 mg/m ³ |
| Lithuania | TPRV (mg/m ³) | 5 mg/m ³ |
| Lithuania | OEL chemical category (LT) | Reproductive toxin, Skin notation |
| Norway | Grenseverdier (AN) (mg/m ³) | 5 mg/m ³ |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 10 mg/m ³ (value calculated) |
| Poland | NDS (mg/m ³) | 0,5 mg/m ³ (inhalable fraction) |
| Poland | NDSch (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 2 mg/m ³ (total dust) |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 5 mg/m ³ (total dust) |

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| | | |
|------------------------------------|-------------------------------|--|
| Sweden | OEL chemical category (SE) | Skin notation |
| Portugal | OEL TWA (mg/m ³) | 2 mg/m ³ (inhalable fraction (Borate compounds, inorganic)) |
| Portugal | OEL STEL (mg/m ³) | 6 mg/m ³ (inhalable fraction) |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen |
| Sodium chloride (7647-14-5) | | |
| Latvia | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 5 mg/m ³ |

8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

- Personal protective equipment : Gloves. Protective clothing. Protective goggles.



- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear protective gloves.
- Eye and Face Protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
- Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Burgundy solid
- Odour : Odourless
- Odour threshold : No data available
- pH : 8.5, when rehydrated with indicated volume of H₂O
- Evaporation rate : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available

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| | |
|--|---------------------|
| Relative density | : No data available |
| Solubility | : Water |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Contact with acids liberates toxic gas.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high temperatures. Incompatible materials.

10.5. Incompatible materials

Acids. Strong oxidizers.

10.6. Hazardous decomposition products

None expected under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

| Sodium azide (26628-22-8) | |
|--------------------------------------|--|
| LD50 oral rat | 27 mg/kg |
| LD50 oral | 45 mg/kg |
| LD50 dermal rabbit | 20 mg/kg |
| LC50 inhalation rat (mg/l) | 0,054 - 0,52 mg/l/4h (Dust/Mist - mg/l/4h) |
| Sodium phosphate dibasic (7558-79-4) | |
| LD50 oral rat | 17 g/kg |
| LD50 dermal rat | > 5000 mg/kg (50% solution) |
| Borax (B4Na2O7.10H2O) (1303-96-4) | |
| LD50 oral rat | 3493 mg/kg |
| LD50 dermal rabbit | > 10000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2 mg/m ³ (Exposure time: 4 h) |
| Sodium chloride (7647-14-5) | |
| LD50 oral rat | 3550 mg/kg (Species: Wistar) |

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| | |
|----------------------------|--|
| LD50 dermal rabbit | > 10000 mg/kg (Species: New Zealand White) |
| LC50 inhalation rat (mg/l) | > 42 g/m ³ (Exposure time: 1 h) |

| | |
|--------------------------------------|---|
| Skin corrosion/irritation | : Not classified pH: 8.5 |
| Serious eye damage/irritation | : Not classified pH: 8.5 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified. (Specific Concentration Limits for sodium borate (CAS number: 1303-96-4): C ≥ 8.5 % Reproductive Toxicity, Repr 1B: H360) |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/Injuries After Inhalation | : Prolonged exposure may cause irritation. |
| Symptoms/Injuries After Skin Contact | : Prolonged exposure may cause skin irritation. |
| Symptoms/Injuries After Eye Contact | : May cause slight irritation to eyes. |
| Symptoms/Injuries After Ingestion | : Ingestion may cause adverse effects. |
| Chronic Symptoms | : None expected under normal conditions of use. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

| Sodium azide (26628-22-8) | |
|---------------------------|---|
| LC50 fish 1 | 0,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC50 fish 2 | 0,7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |
| ErC50 (algae) | 0,348 mg/l |

| Borax (B4Na2O7.10H2O) (1303-96-4) | |
|-----------------------------------|----------|
| EC50 Daphnia 1 | 644 mg/l |

| Sodium chloride (7647-14-5) | |
|-----------------------------|---|
| LC50 fish 1 | 5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 Daphnia 1 | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2 | 340,7 (340,7 - 469,2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| NOEC chronic fish | 252 mg/l (Species: Pimephales promelas) |

12.2. Persistence and degradability

| 4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc _γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins) | |
|--|------------------|
| Persistence and degradability | Not established. |

4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.3. Bioaccumulative potential

| 4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc _γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins) | |
|--|----------------------|
| Bioaccumulative potential | Not established. |
| Sodium chloride (7647-14-5) | |
| BCF fish 1 | (no bioaccumulation) |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| Borax (B ₄ Na ₂ O ₇ ·10H ₂ O) (1303-96-4) | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal : Dispose of contents/container in accordance with local, regional, national, and international regulations.
Ecology - waste materials : Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

14.6. Special precautions for user

No additional information available

4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration = 0.1% or with a lower specific limit: Disodium tetraborate, anhydrous (EC 215-540-4;603-411-9, CAS 1303-96-4)

Contains no REACH Annex XIV substances

Sodium azide (26628-22-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sodium chloride (7647-14-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Date of Preparation or Latest Revision : 25/04/2024

Data sources : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full Text of H- and EUH-statements:

| | |
|-------------------------------------|---|
| Acute Tox. 1 (Dermal) | Acute toxicity (dermal), Category 1 |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Repr. 1B | Reproductive toxicity, Category 1B |
| H300 | Fatal if swallowed. |
| H310 | Fatal in contact with skin. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |

4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--------|---|
| H332 | Harmful if inhaled. |
| H360 | May damage fertility or the unborn child. |
| H360FD | May damage fertility. May damage the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH032 | Contact with acids liberates very toxic gas. |

Indication of Changes No additional information available

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
 ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
 ATE - Acute Toxicity Estimate
 BCF - Bioconcentration Factor
 BEI - Biological Exposure Indices (BEI)
 BOD – Biochemical Oxygen Demand
 CAS No. - Chemical Abstracts Service Number
 CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
 COD – Chemical Oxygen Demand
 EC – European Community
 EC50 - Median Effective Concentration
 EEC – European Economic Community
 EINECS – European Inventory of Existing Commercial Chemical Substances
 EmS-No. (Fire) - IMDG Emergency Schedule Fire
 EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
 EU – European Union
 ErC50 - EC50 in Terms of Reduction Growth Rate
 GHS – Globally Harmonized System of Classification and Labeling of Chemicals
 IARC - International Agency for Research on Cancer
 IATA - International Air Transport Association
 IBC Code - International Bulk Chemical Code
 IMDG - International Maritime Dangerous Goods
 IPRV - Ilgalaikio Poveikio Ribinis Dydis
 IOELV – Indicative Occupational Exposure Limit Value
 LC50 - Median Lethal Concentration
 LD50 - Median Lethal Dose
 LOAEL - Lowest Observed Adverse Effect Level
 LOEC - Lowest-Observed-Effect Concentration
 Log K_{oc} - Soil Organic Carbon-water Partitioning Coefficient
 Log K_{ow} - Octanol/water Partition Coefficient
 Log P_{ow} - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
 MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
 MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyższe Dopuszczalne Stezenie
 NDSC - Najwyższe Dopuszczalne Stezenie Chwilowe
 NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
 NOAEL - No-Observed Adverse Effect Level
 NOEC - No-Observed Effect Concentration
 NRD - Nevirsytinas Ribinis Dydis
 NTP – National Toxicology Program
 OEL - Occupational Exposure Limits
 PBT - Persistent, Bioaccumulative and Toxic
 PEL - Permissible Exposure Limit
 pH – Potential Hydrogen
 REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
 RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
 SADT - Self Accelerating Decomposition Temperature
 SDS - Safety Data Sheet
 STEL - Short Term Exposure Limit
 STOT - Specific Target Organ Toxicity
 TA-Luft - Technische Anleitung zur Reinhaltung der Luft
 TEL TRK – Technical Guidance Concentrations
 ThOD – Theoretical Oxygen Demand
 TLM - Median Tolerance Limit
 TLV - Threshold Limit Value
 TPRD - Trumpalaikio Poveikio Ribinis Dydis
 TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
 TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
 TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
 TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
 TSCA - Toxic Substances Control Act
 TWA - Time Weighted Average
 VOC – Volatile Organic Compounds
 VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
 VLA-ED - Valor Límite Ambiental Exposición Diaria
 VLE – Valeur Limite D'exposition
 VME – Valeur Limite De Moyenne Exposition
 vPvB - Very Persistent and Very Bioaccumulative
 WEL – Workplace Exposure Limit
 WGK - Wassergefährdungsklasse

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.