# 12 nm Colloidal Gold-AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit Serum Proteins)

Safety Data Sheet

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

Date of issue: 29/03/2024 Version: 3.1

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

### 1.1. Product identifier

Product Form : Mixture

Product Name : 12 nm Colloidal Gold-AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit Serum Proteins)

Product Code : 112-205-143

### 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.

### 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<br>(EC-No.) 247-852-1<br>(EC Index-No.)<br>011-004-00-7 | 0.04 | Acute Tox. 2 (Oral), H300<br>Acute Tox.1 (Dermal), H310<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Sodium phosphate dibasic | (CAS-No.) 7558-79-4<br>(EC-No.) 231-448-7 | 0.09 | Not classified |
| 12 nm Colloidal Gold-AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit Serum Proteins) | (CAS-No.) Not assigned | 0.17 | Not classified |
| Borax (B4Na207.10H20)<br>substance listed as REACH Candidate<br>(Disodium tetraborate, anhydrous) | (CAS-No.) 1303-96-4<br>(EC-No.) 215-540-4;<br>603-411-9<br>(EC Index-No.)<br>005-011-01-1 | 0.24 | Acute Tox. 4 (Inhalation:dust,mist) H332<br>Eye Irrit. 2, H319<br>Repr. 1B, H360 |
| Sodium chloride | (CAS-No.) 7647-14-5<br>(EC-No.) 231-598-3 | 0.77 | Not classified |
| Albumins, blood serum | (CAS-No.) 9048-46-8<br>(EC-No.) 232-936-2 | 1.28 | Not classified |

**Specific concentration limits:**

| Name | Product identifier | Specific concentration limits |
|---|---|---|
| Borax (B4Na207.10H20) | (CAS-No.) 1303-96-4<br>(EC-No.) 215-540-4; 603-411-9<br>(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.

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.

### 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. Avoid breathing vapors, mist, spray. |
| 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 (35.6°F - 46.4°F) under sterile conditions. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. |
| Incompatible materials | : | Strong acids, strong bases, strong oxidizers. |

### 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/m³) | 0,1 mg/m³ |
| EU | IOELV STEL (mg/m³) | 0,3 mg/m³ |
| EU | Notes | Possibility of significant uptake through the skin |
| Austria | MAK (mg/m³) | 0,1 mg/m³ |
| Austria | MAK Short time value (mg/m³) | 0,3 mg/m³ |
| Austria | OEL chemical category (AT) | Skin notation |
| Belgium | OEL chemical category (BE) | Skin, Skin notation |
| Bulgaria | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Bulgaria | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Croatia | GVI (granicna vrijednost izloženosti) (mg/m³) | 0,1 mg/m³ |
| Croatia | KGVI (kratkotrajna granicna vrijednost izloženosti) (mg/m³) | 0,3 mg/m³ |
| Croatia | OEL chemical category (HR) | Skin notation |
| Cyprus | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Cyprus | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Cyprus | OEL chemical category (CY) | Skin-potential for cutaneous absorption |

| | | |
|---|---|---|
| France | VLE (mg/m³) | 0,3 mg/m³ (restrictive limit) |
| France | VME (mg/m³) | 0,1 mg/m³ (restrictive limit) |
| France | OEL chemical category (FR) | Risk of cutaneous absorption |
| Germany | Occupational exposure limit value (mg/m³) | 0,2 mg/m³ |
| Gibraltar | Eight hours mg/m3 | 0,1 mg/m³ |
| Gibraltar | Short-term mg/m3 | 0,3 mg/m³ |
| Gibraltar | OEL chemical category (GI) | Skin notation |
| Greece | OEL TWA (mg/m³) | 0,3 mg/m³ |
| Greece | OEL TWA (ppm) | 0,1 ppm |
| Greece | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Greece | OEL STEL (ppm) | 0,1 ppm |
| USA ACGIH | ACGIH Ceiling (mg/m³) | 0,29 mg/m³ |
| USA ACGIH | ACGIH Ceiling (ppm) | 0,11 ppm |
| Italy | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Italy | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Italy | OEL chemical category (IT) | skin - potential for cutaneous absorption |
| Latvia | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Latvia | OEL chemical category (LV) | skin - potential for cutaneous exposure |
| Spain | VLA-ED (mg/m³) | 0,1 mg/m³ (indicative limit value) |
| Spain | VLA-EC (mg/m³) | 0,3 mg/m³ |
| Spain | OEL chemical category (ES) | skin - potential for cutaneous absorption |
| Switzerland | KZGW (mg/m³) | 0,4 mg/m³ (inhalable dust) |
| Switzerland | MAK (mg/m³) | 0,2 mg/m³ (inhalable dust) |
| Netherlands | Grenswaarde TGG 8H (mg/m³) | 0,1 mg/m³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m³) | 0,3 mg/m³ |
| United Kingdom | WEL TWA (mg/m³) | 0,1 mg/m³ |
| United Kingdom | WEL STEL (mg/m³) | 0,3 mg/m³ |
| United Kingdom | WEL chemical category | Potential for cutaneous absorption |
| Czech Republic | Expozicní limity (PEL) (mg/m³) | 0,1 mg/m³ |
| Czech Republic | OEL chemical category (CZ) | Potential for cutaneous absorption |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 0,1 mg/m³ |
| Estonia | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Estonia | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Estonia | OEL chemical category (ET) | Sensitizer, Skin notation |
| Finland | HTP-arvo (8h) (mg/m³) | 0,1 mg/m³ |
| Finland | HTP-arvo (15 min) | 0,3 mg/m³ |
| Finland | OEL chemical category (FI) | Potential for cutaneous absorption |

| | | |
|---|---|---|
| Hungary | AK-érték | 0,1 mg/m³ |
| Hungary | CK-érték | 0,3 mg/m³ |
| Ireland | OEL (8 hours ref) (mg/m³) | 0,1 mg/m³ |
| Ireland | OEL (15 min ref) (mg/m3) | 0,3 mg/m³ |
| Ireland | OEL chemical category (IE) | Potential for cutaneous absorption |
| Lithuania | IPRV (mg/m³) | 0,1 mg/m³ |
| Lithuania | TPRV (mg/m³) | 0,3 mg/m³ |
| Lithuania | OEL chemical category (LT) | Skin notation |
| Luxembourg | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Luxembourg | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Luxembourg | OEL chemical category (LU) | Possibility of significant uptake through the skin |
| Malta | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Malta | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Malta | OEL chemical category (MT) | Possibility of significant uptake through the skin |
| Norway | Grenseverdier (AN) (mg/m³) | 0,1 mg/m³ |
| Norway | Grenseverdier (Korttidsverdi) (mg/m3) | 0,3 mg/m³ (value from the regulation) |
| Poland | NDS (mg/m³) | 0,1 mg/m³ |
| Poland | NDSCh (mg/m³) | 0,3 mg/m³ |
| Romania | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Romania | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Romania | OEL chemical category (RO) | Skin notation |
| Slovakia | NPHV (priemerná) (mg/m³) | 0,1 mg/m³ (Sodium azide) |
| Slovakia | NPHV (Hranicná) (mg/m³) | 0,3 mg/m³ |
| Slovakia | OEL chemical category (SK) | Potential for cutaneous absorption |
| Slovenia | OEL TWA (mg/m³) | 0,1 mg/m³ |
| Slovenia | OEL STEL (mg/m³) | 0,3 mg/m³ |
| Slovenia | OEL chemical category (SI) | Potential for cutaneous absorption |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 0,1 mg/m³ |
| Sweden | kortidsvärde (KTV) (mg/m³) | 0,3 mg/m³ |
| Portugal | OEL TWA (mg/m³) | 0,1 mg/m³ (indicative limit value) |
| Portugal | OEL STEL (mg/m³) | 0,3 mg/m³ (indicative limit value) |
| Portugal | OEL - Ceilings (mg/m³) | 0,29 mg/m³ |
| 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)** | | |
|---|---|---|
| Belgium | Limit value (mg/m³) | 2 mg/m³ |

| | | |
|---|---|---|
| Belgium | Short time value (mg/m³) | 6 mg/m³ |
| Bulgaria | OEL TWA (mg/m³) | 5 mg/m³ (Boron and its inorganic compounds) |
| Croatia | GVI (granicna vrijednost izloženosti) (mg/m³) | 5 mg/m³ |
| Croatia | OEL chemical category (HR) | Reproductive Toxin Category 1B |
| France | VME (mg/m³) | 5 mg/m³ |
| France | OEL chemical category (FR) | Reproductive Toxin category 1B |
| Greece | OEL TWA (mg/m³) | 10 mg/m³ (Borax) |
| USA ACGIH | ACGIH TWA (mg/m³) | 2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic) |
| USA ACGIH | ACGIH STEL (mg/m³) | 6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic) |
| Spain | VLA-ED (mg/m³) | 2 mg/m³ |
| Spain | VLA-EC (mg/m³) | 6 mg/m³ |
| Spain | OEL chemical category (ES) | TR1B |
| Switzerland | KZGW (mg/m³) | 0,8 mg/m³ (inhalable dust (Tetraborate) |
| Switzerland | MAK (mg/m³) | 0,8 mg/m³ (inhalable dust (Tetraborates) |
| Switzerland | OEL chemical category (CH) | Category 1B developmental toxin, Category 1B reproductive toxin |
| United Kingdom | WEL TWA (mg/m³) | 5 mg/m³ |
| United Kingdom | WEL STEL (mg/m³) | 15 mg/m³ (calculated) |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 2 mg/m³ |
| Estonia | OEL TWA (mg/m³) | 2 mg/m³ |
| Estonia | OEL STEL (mg/m³) | 5 mg/m³ |
| Estonia | OEL chemical category (ET) | Skin notation |
| Hungary | OEL chemical category (HU) | Repr1B |
| Ireland | OEL (8 hours ref) (mg/m³) | 5 mg/m³ (Borates) |
| Ireland | OEL (15 min ref) (mg/m3) | 6 mg/m³ (calculated (Borates) |
| Lithuania | IPRV (mg/m³) | 2 mg/m³ |
| Lithuania | TPRV (mg/m³) | 5 mg/m³ |
| Lithuania | OEL chemical category (LT) | Reproductive toxin, Skin notation |
| Norway | Grenseverdier (AN) (mg/m³) | 5 mg/m³ |
| Norway | Grenseverdier (Korttidsverdi) (mg/m3) | 10 mg/m³ (value calculated) |
| Poland | NDS (mg/m³) | 0,5 mg/m³ (inhalable fraction) |
| Poland | NDSCh (mg/m³) | 2 mg/m³ (inhalable fraction) |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 2 mg/m³ (total dust) |
| Sweden | kortidsvärde (KTV) (mg/m³) | 5 mg/m³ (total dust) |
| Sweden | OEL chemical category (SE) | Skin notation |

| | | |
|---|---|---|
| Portugal | OEL TWA (mg/m³) | 2 mg/m³ (inhalable fraction (Borate compounds, inorganic) |
| Portugal | OEL STEL (mg/m³) | 6 mg/m³ (inhalable fraction) |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen |

| **Sodium chloride (7647-14-5)** | | |
|---|---|---|
| Latvia | OEL TWA (mg/m³) | 5 mg/m³ |
| Lithuania | IPRV (mg/m³) | 5 mg/m³ |

### 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 : Liquid

Appearance : Burgundy liquid

Odour : Odourless

Odour threshold : No data available

pH : 8.5, when rehydrated with indicated volume of $H_2O$

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

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/m³ (Exposure time: 4 h) |

| **Sodium chloride (7647-14-5)** | |
|---|---|
| LD50 oral rat | 3550 mg/kg (Species: Wistar) |
| LD50 dermal rabbit | > 10000 mg/kg (Species: New Zealand White) |
| LC50 inhalation rat (mg/l) | > 42 g/m³ (Exposure time: 1 h) |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Not classified<br>pH: 8.5 |
| Serious eye damage/irritation | : | Not classified<br>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

| **12 nm Colloidal Gold-AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit Serum Proteins)** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| **12 nm Colloidal Gold-AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit 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 (B4Na2O7.10H2O) (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 recommendations : 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<br>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

### 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 : 29/03/2024
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. |
| 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 Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - 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 - Najwyzsze Dopuszczalne Stezenie
NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
NDSP - Najwyzsze 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.*