4 nm Colloidal Gold-AffiniPure™ Goat Anti-Human IgG, Fc_γ Fragment Specific (minimal cross-reaction to Bovine, Mouse, 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: 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 _g Fragment Specific		
		(minimal cross-reaction to Bovine, Mouse, and Rabbit Serum Proteins)		
Product Code : 109-185-170				
1.2.	Relevant identified uses of the s	ubstance or mixture and uses advised against		
1.2.1.	Relevant identified uses			
Used	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 ad	ditional information available			
1.3.	Details of the supplier of the	safety data sheet		
	ufacturer	European Contact		
Jacks	on ImmunoResearch Laboratories,			
	Nest Baltimore Pike	Cambridge House		
	Grove, PA 19390	St Thomas' Place		
	0-367-5296, 610-869-4024	Ely, Cambridgeshire CB7 4EX, UK		
	0-869-0171	T: +44 (0) 1638 782616		
	@jacksonimmuno.com	F: +44 (0) 1353 664675		
www	.jacksonimmuno.com	info@jacksonimmuno.com		
Ence i		help@jacksonimmuno.com		
	l address for the person responsib	ie for this SDS:		
1.4.	@jacksonimmuno.com			
	Emergency telephone numb gency number : +1-	610-869-4024 (USA)		
	TION 2: Hazards identifi			
2.1.	Classification of the substance			
	ication According to Regulation (EC)	H412		
-	tic Chronic3 xt of hazard classes and H-stateme			
	se physicochemical, human health a	and environmental effects		
	ditional information available			
2.2.	Label elements			
	ng According to Regulation (EC) No			
	Hazard statements (CLP) H412 - Harmful to aquatic life with long lasting effects.			
Preca	Precautionary statements (CLP) P273 - Avoid release to the environment.			
P501 - Dispose of contents/container to hazardous or special waste collec				

point, in accordance with local, regional, national and/or international regulation. EUH032 - Contact with acids liberates very toxic gas.

EUH-statements

EN (English)

Fragment Specific (minimal cross-reaction to Bovine, Mouse, and Rabbit Serum Proteins)



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2.3. Other hazards

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

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	0.27	Acute Tox. 2 (Oral), H300
	(EC-No.) 247-852-1		Acute Tox.1 (Dermal), H310
	(EC Index-No.)		Acute Tox. 2 (Inhalation:dust,mist), H330
	011-004-00-7		Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Sodium phosphate dibasic	(CAS-No.) 7558-79-4	0.55	Not classified
	(EC-No.) 231-448-7		
4 nm Colloidal Gold-AffiniPure™ Goat	(CAS-No.) Not assigned	1.07	Not classified
Anti-Human IgG, Fc _g Fragment			
Specific (minimal cross-reaction to			
Bovine, Mouse, and Rabbit Serum			
Proteins)			
Borax (B4Na207.10H20)	(CAS-No.) 1303-96-4	1.5	Acute Tox. 4 (Inhalation:dust,mist) H332
substance listed as REACH Candidate	(EC-No.) 215-540-4;		Eye Irrit. 2, H319
(Disodium tetraborate, anhydrous)	603-411-9		Repr. 1B, H360
	(EC Index-No.)		
	005-011-01-1		
Sodium chloride	(CAS-No.) 7647-14-5	4.82	Not classified
	(EC-No.) 231-598-3		
Albumins, blood serum	(CAS-No.) 9048-46-8	8.03	Not classified
	(EC-No.) 232-936-2		

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Borax (B4Na207.10H20)	(CAS-No.) 1303-96-4	(8,5= <c<100) 1b,="" h360fd<="" repr.="" td=""></c<100)>
	(EC-No.) 215-540-4; 603-411-9	
	(EC Index-No.) 005-011-01-1	

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
First-aid measures after eye contact	minutes. Obtain medical attention if irritation develops or persists. : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if
Thist-and measures after eye contact	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.
	nd 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 advi	ce and attention. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting mea	sures
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 t	he 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	: Carbon oxides (CO, CO ₂). Sodium oxides. Phosphorus oxides.
case of fire	
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 relea	
• • •	tive 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	· Lice appropriate personal protective equipment (DDE)
Protective equipment	: Use appropriate personal protective equipment (PPE).
Emergency procedures 6.1.2. For emergency responders	: 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
Energency procedures	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	are assistance of a amed personnel as soon as conditions permit. Ventilate area.
	: Prevent entry to sewers and public waters. Avoid release to the environment.
	. The vent entry to sewers and public waters. Avoid release to the environment.

Fragment Specific (minimal cross-reaction to Bovine, Mouse, and Rabbit Serum Proteins)



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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 handli	ng	
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 (26628-2	2-8)	
EU	IOELV TWA (mg/m³)	0,1 mg/m³
EU	IOELV STEL (mg/m ³)	0,3 mg/m ³
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (mg/m³)	0,1 mg/m ³
Austria	MAK Short time value (mg/m³)	0,3 mg/m ³
Austria	OEL chemical category (AT)	Skin notation
Belgium	OEL chemical category (BE)	Skin, Skin notation
Bulgaria	OEL TWA (mg/m³)	0,1 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	0,3 mg/m ³
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/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/m3	0,1 mg/m ³
Gibraltar	Short-term mg/m3	0,3 mg/m ³
Gibraltar	OEL chemical category (GI)	Skin notation
Greece	OEL TWA (mg/m³)	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/m³)	0,29 mg/m ³
USA ACGIH	ACGIH Ceiling (ppm)	0,11 ppm
Italy	OEL TWA (mg/m³)	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/m³)	0,1 mg/m ³
Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure
Spain	VLA-ED (mg/m³)	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/m³ (inhalable dust)
Switzerland	MAK (mg/m³)	0,2 mg/m³ (inhalable dust)
Netherlands	Grens waarde TGG 8H (mg/m³)	0,1 mg/m ³
Netherlands	Grens waarde TGG 15MIN (mg/m ³)	0,3 mg/m ³
United Kingdom	WEL TWA (mg/m³)	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/m³)	0,1 mg/m ³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (langvarig) (mg/m³)	0,1 mg/m ³
Estonia	OEL TWA (mg/m³)	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/m³)	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/m3)	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 skir
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 skir
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	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/m³)	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/m³)	0,1 mg/m ³ (Sodium azide)
Slovakia	NPHV (Hranicná) (mg/m³)	0,3 mg/m ³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovenia	OEL TWA (mg/m³)	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/m³)	0,1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	0,3 mg/m ³
Portugal	OEL TWA (mg/m³)	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/m³)	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/m³)	2 mg/m ³
Belgium	Short time value (mg/m³)	6 mg/m ³
Bulgaria	OEL TWA (mg/m³)	5 mg/m ³ (Boron and its inorganic compounds)
Croatia	GVI (granicna vrijednost izloženosti) (mg/m³)	5 mg/m ³
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/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/m³)	2 mg/m ³
Spain	VLA-EC (mg/m ³)	6 mg/m ³
Spain	OEL chemical category (ES)	TR1B
Switzerland	KZGW (mg/m³)	0,8 mg/m ³ (inhalable dust (Tetraborate)
Switzerland	MAK (mg/m³)	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/m³)	2 mg/m ³
Estonia	OEL TWA (mg/m³)	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/m3)	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/m3)	10 mg/m ³ (value calculated)
Poland	NDS (mg/m ³)	0,5 mg/m³ (inhalable fraction)
Poland	NDSCh (mg/m ³)	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)





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Sweden	OEL chemical category (SE)	Skin notation
Portugal	OEL TWA (mg/m³)	2 mg/m ³ (inhalable fraction (Borate compounds, inorganic)
Portugal	OEL STEL (mg/m ³)	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/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.

Other information

SECTION 9: Physical and chemical properties

9.1.	Information on basic	physical and chemical properties
DI .	1	

Physical state	:	Solid
Appearance	:	Burgundy solid
Odour	:	Odourless
Odour threshold	:	No data available
рН	:	8.5, when rehydrated with indicated volume of ${\rm H_2O}$
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

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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/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)		

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LC50 inhalation rat (mg/l)	>42 g/m ³ (Exposure time: 1 h)
Skin corrosion/irritation Serious eye damage/irritation	 Not classified pH: 8.5 Not classified
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	pH: 8.5 : Not classified : Not classified : Not classified
Reproductive toxicity STOT-single exposure	 Not classified. (Specific Concentration Limits for sodium borate (CAS number: 1303-96-4): C >= 8.5 % Reproductive Toxicity, Repr 1B: H360) Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard Symptoms/Injuries After Inhalation Symptoms/Injuries After Skin Contact Symptoms/Injuries After Eye Contact Symptoms/Injuries After Ingestion Chronic Symptoms SECTION 12: Ecological inform 12.1. Toxicity Ecology - general Sodium azide (26628-22-8) LC50 fish 1 LC50 fish 2	 Not classified. 0,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 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])

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential



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4 nm Colloidal Gold-AffiniPure™ Goat A	Anti-Human IgG, Fc _g Fragment Specific (minimal cross-reaction to Bovine, Mouse, 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 asso	essment
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 consi	derations
13.1. Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials	 Dispose of contents/container in accordance with local, regional, national, and international regulations. 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	ΙΑΤΑ	ADN	RID	
14.1. UN numbe	r				
Not regulated for tran	nsport				
14.2. UN proper	shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport h	azard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing gro	oup				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	
environment : No	environment : No	environment : No	environment : No	environment : No	
	Marine pollutant : 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

Fragment Specific (minimal cross-reaction to Bovine, Mouse, and Rabbit Serum Proteins)



Safety Data Sheet

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

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
Н300	Fatal if swallowed.
H310	Fatal in contact with skin.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.





Safety Data Sheet

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

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

Abbreviations and Acronyms	
ACGIH – American Conference of Governmental Industrial Hygien	ists NDS - Najwyzsze Dopuszczalne Stezenie
ADN – European Agreement Concerning the International Carriag	e of NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
Dangerous Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe
ADR - European Agreement Concerning the International Carriage	of NOAEL - No-Observed Adverse Effect Level
Dangerous Goods by Road	NOEC - No-Observed Effect Concentration
ATE - Acute Toxicity Estimate	NRD - Nevirsytinas Ribinis Dydis
BCF - Bioconcentration Factor	NTP – National Toxicology Program
BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
BOD – Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic
CAS No Chemical Abstracts Service Number	PEL - Permissible Exposure Limit
CLP – Classification, Labeling and Packaging Regulation (EC) No	pH – Potential Hydrogen
1272/2008	REACH – Registration, Evaluation, Authorisation, and Restriction of
COD – Chemical Oxygen Demand	Chemicals
EC – European Community	RID – Regulations Concerning the International Carriage of Dangerous
EC50 - Median Effective Concentration	Goods by Rail
EEC – European Economic Community	SADT - Self Accelerating Decomposition Temperature
EINECS – European Inventory of Existing Commercial Chemical	SDS - Safety Data Sheet
Substances	STEL - Short Term Exposure Limit
EmS-No. (Fire) - IMDG Emergency Schedule Fire	STOT - Specific Target Organ Toxicity
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
EU – European Union	TEL TRK – Technical Guidance Concentrations
ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD – Theoretical Oxygen Demand
GHS – Globally Harmonized System of Classification and Labeling	of TLM - Median Tolerance Limit
Chemicals	TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IATA - International Air Transport Association	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von
IBC Code - International Bulk Chemical Code	Gefahrstoffen in ortsbeweglichen Behältern
IMDG - International Maritime Dangerous Goods	TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
IPRV - Ilgalaikio Poveikio Ribinis Dydis	TRGS 900 - Technische Regel für Gefahrstoffe 900 –
IOELV – Indicative Occupational Exposure Limit Value	Arbeitsplatzgrenzwerte
LC50 - Median Lethal Concentration	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische
LD50 - Median Lethal Dose	Grenzwerte
LOAEL - Lowest Observed Adverse Effect Level	TSCA - Toxic Substances Control Act
LOEC - Lowest-Observed-Effect Concentration	TWA - Time Weighted Average
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VOC – Volatile Organic Compounds
Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved	VLA-ED - Valor Límite Ambiental Exposición Diaria
substance in a two-phase system consisting of two largely immis	cible VLE – Valeur Limite D'exposition
solvents, in this case octanol and water	VME – Valeur Limite De Moyenne Exposition
MAK – Maximum Workplace Concentration/Maximum Permissibl	e vPvB - Very Persistent and Very Bioaccumulative
Concentration	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollutio	n 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.