

IENCES G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # 786-839

Protein A/G Resin

Size: 5 column kit





JAW Phosphate Buffered Saline Pack Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

.1. Product identifier			
roduct form	: Substance		
ubstance name	: JAW Phosphate Buffered Salin	e Pack	
roduct code	: 001J		
roduct group	: Trade product		
2. Relevant identified uses of the su	ibstance or mixture and uses advise	ed against	
2.1. Relevant identified uses o additional information available			
.2.2. Uses advised against lo additional information available			
.3. Details of the supplier of the safe eno Technology, Inc./ G-Biosciences 800 Page Avenue 3132-1429 Saint Louis - United States 800-628-7730 - F 314-991-1504			
chnical@GBiosciences.com - www.GBiosc	iences.com		
.4. Emergency telephone number mergency number	: Chemtrec 1-800-424-9300 (USA/Ca	anada), +1-703-527-3	3887 (Intl)
ECTION 2: Hazards identification			
.1. Classification of the substance o	r mixture		
ot classified dverse physicochemical, human health a o our knowledge, this product does not pres	and environmental effects	ed in accordance with	n good occupational hygiene and sa
ot classified dverse physicochemical, human health a p our knowledge, this product does not pres- ractice. 2. Label elements abelling according to Regulation (EC) No o labelling applicable 3. Other hazards	and environmental effects sent any particular risk, provided it is handle	ed in accordance with	n good occupational hygiene and sa
ot classified dverse physicochemical, human health a p our knowledge, this product does not pres- actice. 2. Label elements abelling according to Regulation (EC) No o labelling applicable 3. Other hazards o additional information available ECTION 3: Composition/information	and environmental effects sent any particular risk, provided it is handle b. 1272/2008 [CLP]	ed in accordance with	n good occupational hygiene and sa
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ot classified dverse physicochemical, human health a pour knowledge, this product does not prese actice. 2. Label elements abelling according to Regulation (EC) No polabelling applicable 3. Other hazards poladitional information available ECTION 3: Composition/information 1. Substances ame lame	and environmental effects sent any particular risk, provided it is handle b. 1272/2008 [CLP] tion on ingredients : JAW Phosphate Buffered Salin	e Pack	Classification according Regulation (EC) No.
ot classified dverse physicochemical, human health a pour knowledge, this product does not pres- actice. 2. Label elements abelling according to Regulation (EC) No polabelling applicable 3. Other hazards poladitional information available ECTION 3: Composition/information 1. Substances ame lame odium chloride	and environmental effects sent any particular risk, provided it is handle b. 1272/2008 [CLP] (tion on ingredients : JAW Phosphate Buffered Salin Product identifier (CAS-No.) 7647-14-5	e Pack	Classification according Regulation (EC) No. 1272/2008 [CLP]
ot classified dverse physicochemical, human health a p our knowledge, this product does not pres- ractice. 2. Label elements abelling according to Regulation (EC) No o labelling applicable 3. Other hazards o additional information available ECTION 3: Composition/informa 1. Substances ame	And environmental effects sent any particular risk, provided it is handle b. 1272/2008 [CLP] (tion on ingredients : JAW Phosphate Buffered Salin Product identifier (CAS-No.) 7647-14-5 (EC-No.) 231-598-3 (CAS-No.) 7558-80-7	e Pack % 80 - 90	Classification according Regulation (EC) No. 1272/2008 [CLP] Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.

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First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	
No additional information available	
4.3. Indication of any immediate medical Treat symptomatically.	attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	Weter energy Drug ender Franz
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the sub	
Hazardous decomposition products in case of fire	e : Toxic fumes may be released.
5.3. Advice for firefighters Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas 6.1. Personal precautions, protective equ	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includin	
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/perso	onal protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical pro	nerties
9.1. Information on basic physical and chem	
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information No additional information available	

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
sodium chloride (7647-14-5)	
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value, 20% aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20% aqueous solution, Inhalation (aerosol))
potassium chloride (7447-40-7)	

potassium chioride (7447-40-7)	
LD50 oral rat	3020 mg/kg bodyweight (Rat, Female, Experimental value, Oral)

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Potassium Phosphate (Monobasic) (7778-77-0)	
LD50 oral rat	7100 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 4640 mg/kg (Rabbit, Dermal)

Sodium phosphate monobasic (7558-8	30-7)
LD50 oral rat	8290 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
sodium chloride (7647-14-5)	
LC50 fish 1	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)

potassium chloride (7447-40-7)	
LC50 fish 1	2010 mg/l (96 h, Lepomis macrochirus, Static system)
LC50 fish 2	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	660 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h algae (1)	2500 mg/l (Scenedesmus subspicatus, Biomass)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

Potassium Phosphate (Monobasic) (7778-77-0)	
LC50 fish 1	> 900 mg/l (48 h, Leuciscus idus)

Sodium phosphate monobasic (7558-80-7)	
LC50 fish 1	> 2400 mg/l (OECD 203: Fish, Acute Toxicity Test, 48 h, Leuciscus idus)
12.2. Persistence and degradability	
sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium chloride (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable.

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Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Potassium Phosphate (Monobasic) (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Sodium phosphate monobasic (7558-80-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
sodium chloride (7647-14-5)	
Log Pow	-3 (Calculated)
Bioaccumulative potential	Not bioaccumulative.

potassium chloride (7447-40-7)	
Log Pow -0.46 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.

Potassium Phosphate (Monobasic) (7778-77-0)	
Bioaccumulative potential	No bioaccumulation data available.

Sodium phosphate monobasic (7558-80-7)	
Log Pow	-3.96 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
sodium chloride (7647-14-5)	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

potassium chloride (7447-40-7)	
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
Component	
sodium chloride (7647-14-5)	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
potassium chloride (7447-40-7)	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	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.

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SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
	. Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	· Not applicable
Packing group (ADR)	: Not applicable
Packing group (IMDG) Packing group (IATA)	: Not regulated : Not regulated
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
No data available	
Transport by sea	
Not regulated	
Air transport	
Not regulated	
Inland waterway transport	
No data available	
Rail transport	
No data available	
14.7. Transport in bulk according to Annex I	l of Marpol and the IBC Code
Not applicable	
SECTION 15: Pogulatory information	
SECTION 15: Regulatory information	

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

JAW Phosphate Buffered Saline Pack is not on the REACH Candidate List

JAW Phosphate Buffered Saline Pack is not on the REACH Annex XIV List

JAW Phosphate Buffered Saline Pack is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

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JAW Phosphate Buffered Saline Pack is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

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

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Id	entification of the substa	ance/mixture and of the	company/undertaking		
1.1. Product ide					
Product form		: Mixture			
Product name		: Immobilized Protein A/G Re	: Immobilized Protein A/G Resin		
Product code		: 0491	: 0491		
Product group		: Blend			
1.2. Relevant ide	entified uses of the substan	ice or mixture and uses ad	vised against		
1.2.1. Relevant ide No additional inform					
1.2.2. Uses advise No additional inform	nation available				
Geno Technology, 9800 Page Avenue 63132-1429 Saint L T 800-628-7730 - F	1.3. Details of the supplier of the safety data sheet Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com				
1.4. Emergency Emergency number	telephone number	Chemtrec 1-800-424-9300 (US	A/Canada), +1-703-527-3887 (Ir	ntl)	
Country	Organisation/Company	Address	Emergency number	Comment	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111		
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111		
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111		
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111		
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188		
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111		

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable 2.3. Other hazards No additional information available

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SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Protein A/G Resin		50 - 80	Not classified
Deionized water	(CAS-No.) 7732-18-5	10 - 50	Not classified
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	10 - 50	Flam. Liq. 2, H225
sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	0.05 - 0.5	Not classified
Sodium Phosphate (Dibasic)	(CAS-No.) 7558-79-4 (EC-No.) 231-448-7	< 0.05	Not classified
Potassium Phosphate (Monobasic)	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	< 0.05	Not classified
potassium chloride	(CAS-No.) 7447-40-7 (EC-No.) 231-211-8	< 0.05	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects, I	both acute and delayed
No additional information available	
4.3. Indication of any immediate medical att	ention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: Combustible liquid.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measure	
6.1. Personal precautions, protective equipr	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including an	ny incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
Storage temperature	: 4 °C	

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters		
ethanol (64-17-5)		
United Kingdom - Occupational Exposure Limits	nited Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	1920 mg/m³	
WEL TWA (ppm)	1000 ppm	
8.2. Exposure controls		
Appropriate engineering controls:		

Ensure good ventilation of the work station.

Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respiratory equipment		

Environmental exposure controls:

Avoid release to the environment.

	SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and che Physical state	: Liquid		
Colour	: No data available		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: 65 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		

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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
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information			
Not classified			
Not classified			
Not classified			
10740 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)			
> 16000 mg/kg (Rabbit; Literature study)			
> 20 mg/l (4 h, Rat, Inhalation)			

sodium chloride (7647-14-5)	
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value, 20% aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20% aqueous solution, Inhalation (aerosol))

Sodium Phosphate (Dibasic) (7558-79-4)	
LD50 oral rat	17000 mg/kg (Rat, Oral)
LD50 dermal rat	> 7940 mg/kg (Rat, Dermal)

Potassium Phosphate (Monobasic) (7778-77-0)	
LD50 oral rat	7100 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 4640 mg/kg (Rabbit, Dermal)

potassium chloride (7447-40-7)	
LD50 oral rat	3020 mg/kg bodyweight (Rat, Female, Experimental value, Oral)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	9300 mg/l (48 h, Daphnia magna, Pure substance)
EC50 72h algae (1)	275 mg/l (Equivalent or similar to OECD 201, Chlorella vulgaris, Static system, Fresh water, Experimental value, Growth rate)

sodium chloride (7647-14-5)	
	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)

Sodium Phosphate (Dibasic) (7558-79-4)	
LC50 fish 1	> 2400 mg/I (OECD 203: Fish, Acute Toxicity Test, 48 h, Leuciscus idus)

Potassium Phosphate (Monobasic) (7778-77-0)	
LC50 fish 1	> 900 mg/l (48 h, Leuciscus idus)

potassium chloride (7447-40-7)	
LC50 fish 1	2010 mg/l (96 h, Lepomis macrochirus, Static system)
LC50 fish 2	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	660 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h algae (1)	2500 mg/l (Scenedesmus subspicatus, Biomass)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
12.2. Persistence and degradability	
ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43

sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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Sodium Phosphate (Dibasic) (7558-79-4)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Potassium Phosphate (Monobasic) (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium chloride (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
ethanol (64-17-5)	
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Log Pow	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 $^\circ\text{C}$)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

sodium chloride (7647-14-5)	
Log Pow	-3 (Calculated)
Bioaccumulative potential	Not bioaccumulative.

Sodium Phosphate (Dibasic) (7558-79-4)	
Bioaccumulative potential	Not bioaccumulative.

Potassium Phosphate (Monobasic) (7778-77-0)	
Bioaccumulative potential	No bioaccumulation data available.

potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
ethanol (64-17-5)	
Surface tension	0.0245 N/m (20 °C)
Ecology - soil	Highly mobile in soil.

sodium chloride (7647-14-5)	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

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potassium chloride (7447-40-7)	
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
Component	
ethanol (64-17-5)	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
sodium chloride (7647-14-5)	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	

No additional information available

No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Waste treatment methods.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / ADN		
14.1. UN number	Natawijasha	
UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not regulated	
UN-No. (IATA)	: Not regulated	
UN-No. (ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name	Natawijasha	
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not regulated	
Proper Shipping Name (IATA)	: Not regulated	
Proper Shipping Name (ADN)	: Not applicable	
Proper Shipping Name (RID)	: Not applicable	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: Not applicable	
IMDG		
Transport hazard class(es) (IMDG)	: Not regulated	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not regulated	
ADN	-	
Transport hazard class(es) (ADN)	: Not applicable	
RID		
	. Nat annliachta	
Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group Packing group (ADR)	: Not applicable	
Packing group (IMDG)	: Not regulated	
Packing group (IATA)	: Not regulated	
Packing group (ADN)	: Not regulated	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
No data available		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
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Inland waterway transport

No data available

Rail transport

No data 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 no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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

Full text of H- and EUH-statements:	
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
Safety Data Sheet applicable for regions : GB - United Kingdom	

SDS EU (REACH Annex II)

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.



IgG Elution Buffer

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017

1.1. Product identifier Product form			
i loudot loini	: Mixture		
Product name	: IgG Elution Buffer		
Product code	: 442P		
Product group	: Blend		
I.2. Relevant identified uses of t	the substance or mixture and uses advise	ed against	
1.2.1. Relevant identified uses No additional information available			
1.2.2. Uses advised against No additional information available			
1.3. Details of the supplier of the Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.G	s		
1.4. Emergency telephone numb Emergency number	er : Chemtrec 1-800-424-9300 (USA/Ca	anada), +1-703-52 7	7-3887 (Intl)
2.1. Classification of the substan Classification according to Regulati Not classified Adverse physicochemical, human h	on (EC) No. 1272/2008 [CLP]		
Classification according to Regulati Not classified Adverse physicochemical, human h Fo our knowledge, this product does no practice. 2.2. Label elements Labelling according to Regulation (E No labelling applicable 2.3. Other hazards	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle	ed in accordance w	ith good occupational hygiene and safe
Classification according to Regulati Not classified Adverse physicochemical, human h To our knowledge, this product does no practice. 2.2. Label elements Labelling according to Regulation (E No labelling applicable 2.3. Other hazards No additional information available	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP]	ed in accordance w	ith good occupational hygiene and safe
Classification according to Regulati Not classified Adverse physicochemical, human h Fo our knowledge, this product does no practice. 2.2. Label elements Labelling according to Regulation (E No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/info	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP]	ed in accordance w	ith good occupational hygiene and safe
Classification according to Regulati Not classified Adverse physicochemical, human h To our knowledge, this product does no practice. 2.2. Label elements Labelling according to Regulation (E No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/info 3.1. Substances	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP]	ed in accordance w	ith good occupational hygiene and safe
Classification according to Regulation Not classified Adverse physicochemical, human has a series of the series of	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP]	ed in accordance w	ith good occupational hygiene and safe
Classification according to Regulati Not classified Adverse physicochemical, human h Fo our knowledge, this product does no practice. 2.2. Label elements Labelling according to Regulation (E No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/info 8.1. Substances Not applicable 8.2. Mixtures	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP]	ed in accordance w	ith good occupational hygiene and safe Classification according to Regulation (EC) No. 1272/2008 [CLP]
Classification according to Regulati Not classified Adverse physicochemical, human h	on (EC) No. 1272/2008 [CLP] ealth and environmental effects ot present any particular risk, provided it is handle EC) No. 1272/2008 [CLP] ormation on ingredients		Classification according to Regulation (EC) No.

IgG Elution Buffer

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) w	vith its amendment Regulation (EU) 2015/830
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the sub	
Hazardous decomposition products in case of fire	e : Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
	breating apparatus. Complete protective clothing.
SECTION 6: Accidental release meas 6.1. Personal precautions, protective equ	
	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the
	product.
7.2. Conditions for safe storage, includin	
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable re-	espiratory equipment
Environmental exposure controls:	

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemi	cal properties	
Physical state	: Liquid	
Colour	: No data available	
Odour	: No data available	

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
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)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 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
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects	11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Glycine (56-40-6)		
LD50 oral rat	7930 - 9550 mg/kg (Rat, Male / female, Experimental value, Oral, 7 day(s))	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

IgG Elution Buffer Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acute aquatic toxicity : Not classified			
Chronic aquatic toxicity	: Not classified		
Glycine (56-40-6)			
LC50 fish 1	> 1000 mg/l (Equivalent or similar to OECD 203, 96 h, Oryzias latipes, Static system, Fresh water, Experimental value, Nominal concentration)		
EC50 Daphnia 1	>= 220 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)		
EC50 72h algae (1)	> 1000 mg/l (Equivalent or similar to OECD 201, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Biomass)		
12.2. Persistence and degradability			
Glycine (56-40-6)			
Persistence and degradability	Readily biodegradable in water.		
BOD (% of ThOD)	0.86 (5 day(s), Literature study)		
12.3. Bioaccumulative potential			
Glycine (56-40-6)			
BCF fish 1	0.893 l/kg (BCFBAF v3.01, Pisces, QSAR)		
Log Pow	-3.21 (Experimental value)		
Bioaccumulative potential	Not bioaccumulative.		
12.4. Mobility in soil			
Glycine (56-40-6)			
Log Koc	0 (log Koc, SRC PCKOCWIN v2.0, QSAR)		
Ecology - soil	Highly mobile in soil.		
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Other adverse effects No additional information available			

SECTION 13: Disposal considerations 13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	

In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated

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RID		
Transport hazard class(es) (RID)	: Not regulated	
14.4. Packing group		
Packing group (ADR)	: Not regulated	
Packing group (IMDG)	: Not regulated	
Packing group (IATA)	: Not regulated	
Packing group (ADN)	: Not regulated	
Packing group (RID)	: Not regulated	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
Not regulated		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
Inland waterway transport		
Not regulated		
Rail transport		
Not regulated		
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 no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.