

Staining Kit for PhenoCode Signature

Catalog # PCSP0100

Staining Kit for PhenoCode™ Signature is a multi-component kit. Safety Data Sheets are provided in this document for each component supplied in the kit.

Component Number	Component Description
200035	1X Antibody Diluent / Block
232108	N Blocker
232110	J Blocker
FP1609	1X Plus Automation Amplification Diluent
PCSA1001	PhenoCode Signature Diluent
232111	S Blocker
200039	PhenoCode Signature Blocker 1
200040	PhenoCode Signature Blocker 5



Page 1 of 10

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier : 1X Antibody Diluent / Block

Product Code(s) : ARD1001EA, 200035

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

: Research and development only. Use pattern: professional use

Restrictions on use: Research and development only.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor Marlborough, MA, USA 01752

Supplier Telephone Number

: Austria Belgium Denmark Finland +32 (2) 32023033 +32 (2) 3203033 +45 (8) 0703552 +358 (9) 42452710 France Poland Ireland Italy +33 (0) 805119658 +48 (3) 23074035 +353 (1) 800851675 +39 800768419 Netherlands Sweden Spain Switzerland +31 (8) 000235193 +34 91198427 +46 (84) 4685042 +41 (3) 15281579 United Kingdom United States of America

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC -United States of America)

(855) 896 8401

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

+44 (20) 45252848

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008. Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.



Page 2 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing. May cause slight eye and skin irritation. May cause gastrointestinal irritation.

PBT assessment: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature Mixture

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
No hazardous ingredients above concentration cut-offs	N/Av	Not applicable.	Not applicable.	Not applicable.	Not applicable	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation

Skin contact

Eye contact

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconsciousor is having

convulsions. When symptoms persist or in all cases of doubt, seek medical advice.

: If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medicalpersonnel only. If breathing stops, provide artificial respiration. When symptoms persist or in all cases of

doubt, seek medical advice.

: Wash off with plenty of water. When symptoms persist or in all cases of doubt, seekmedical

advice. Wash contaminated clothing before reuse.

: Immediately flush eye(s) with plenty of water. When symptoms persist or in all casesof doubt,

seek medical advice.

4.1.2 Self-protection for the first aider

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Inhalation of mists or sprays may mildly irritate the upper respiratory tract and causecoughing or

May cause slight eye and skin irritation. Direct eye contact may cause slight redness. Direct skin contact may cause temporary redness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed



Page 3 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcoholfoams,

: carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Sodium oxides; Hydrogen chloride; Other unidentified organic compounds.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Cool closed containers exposed to firewith water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

Prevent product from entering drains, sewers, waterways, and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage ifsafe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g., sand). Pick up and transfer to properly labeled containers. Contaminatedabsorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to Section 13 fordisposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume, or vapors. Avoid contact with skin, eyes, and clothing. Keepaway from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Store away from incompatible materials (see Section10 of the SDS).

7.3 Specific end use(s) : Research and development only.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters



Page 4 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Exposure Limits:			
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>

No hazar	dous ingredients a	ove concentration cut-offs		
		Not applicable.	European Union (OEL)	Not applicable.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable

respiratory equipment.

In case of insufficient ventilation wear suitable respiratory equipment. The filter class for the Respiratory protection

respirator must be suitable for the maximum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must beused. Seek advice from respiratory

protection specialists.

: Gloves impervious to the material are recommended. Wear as appropriate: Latex gloves; Skin protection

Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derivedfrom it. Wear sufficient clothing to prevent

skin contact.

Eye / face protection : Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing dust, fume, or vapors. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid. : Clear Colour Odour : No odour.

PL-000362-EU REV. A



Page 5 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Odour threshold : No information available.

pH : 7.45

Flash point : None. (>90% water)
Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

: No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

: No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None.

Explosive properties : Not explosive

Initial boiling point and boiling range

: >100°C (based on ingredients)

Melting/Freezing point: 0°CRelative density: 1Solubility in water: Soluble

Other solubility(ies): No information available.Vapour pressure: No information available.Vapour density: No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contactwith

incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Nitrogen compounds

10.6 Hazardous decomposition products

: None known.

In the event of fire the following can be released: Carbon oxides; Nitrogen oxides(NOx); Sodium oxides; Hydrogen chloride; Other unidentified organic compounds

11.1 Information on Toxicological effects:

Acute toxicity



Page 6 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: According to the classification artistic activities of the classification artistic activities. : According to the classification criteria of the European Union, the product is not classification criteria of the considered as being a skin irritant. European Union, this

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

Germ cell mutagenicity

Contains no ingredient listed as a mutagen. : Contains no ingredient listed as a carcinogen.

Carcinogenicity Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

Aspiration hazard

: According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure

: Inhalation; Skin contact; Eye contact; Ingestion

Effects of acute exposure:

Inhalation: Inhalation of mists or sprays may mildly irritate the upper respiratory tract

and cause coughing or sneezing.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data

: No data is available on the product itself.

See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD	50
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
No hazardous ingredients above concentration cut-offs	Not applicable.	Not applicable.	Not applicable.

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

: Not expected to be harmful to aquatic organisms. 12.1 Toxicity

> No data is available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.



Page 7 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

		Toxicity to Fish			
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor	
No hazardous ingredients above concentration cut-offs	N/Av	Not applicable.	Not applicable.	Not applicable.	

Ingredients	CAS No	Toxicity to Daphnia		
	OAO NO	EC50 / 48h	NOEC / 21 day	M Factor
No hazardous ingredients above concentration cut-offs	N/Av	Not applicable.	Not applicable.	Not applicable.

Ingredients	CAS No	Toxicity to Algae			Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
No hazardous ingredients above concentration cut-offs	N/Av	Not applicable.	Not applicable.	Not applicable.			

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil : The product itself has not been tested.12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very

bioaccumulating (vPvB). 12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8. This material and its container must be

disposed of in a safe way.

Methods of Disposal

: Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

.

SECTION 14. TRANSPORTATION INFORMATION



Page 8 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ADR/RID	None.	not regulated	not regulated	none	\otimes
ADR/RID Additional information	Not classified a road and rail.	as dangerous for conveyance in the meaning of the regulati	ons for the trar	sport of da	ngerous goods by
ICAO/IATA	None.	Not regulated.	not regulated	none	\bigotimes
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.				

- **14.5 Environmental hazards :** This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.



Page 9 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EU: European Union

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SCBA: Self-Contained Breathing Apparatus

STEL: Short Term Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 18/10/2022

Regulation and Procedure

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction, and training for operators.



Page 10 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com

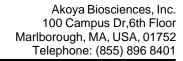


DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT



Page 1 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : N Blocker

Product Code(s) : 232108

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

: Consumer use; professional use No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor

Marlborough, MA, USA

01752

Supplier Telephone Number

Austria Belgium Denmark Finland

+32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552 +358 (9) 42452710

France Poland Ireland Italy

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC - United States of America)

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Page 2 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing. May cause slight eye and skin irritation. May cause gastrointestinal irritation.

PBT assessment: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Water; Buffered saline; Sodium salts; Phosphate salt; BSA; Carboxylic acid; IgG The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
No hazardous ingredients	N/Av	Not applicable.	Not applicable	Not applicable.	Not applicable	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion: Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. When symptoms persist or in all cases of doubt, seek

medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. When symptoms

persist or in all cases of doubt, seek medical advice.

Wash off with plenty of water. When symptoms persist or in all cases of doubt, seek

medical advice. Wash contaminated clothing before reuse.

: Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases

of doubt, seek medical advice.

4.1.2 Self-protection for the first aider

Skin contact

Eye contact

: None known or reported by the manufacturer.

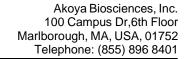
4.2 Most important symptoms and effects, both acute and delayed

 Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

May cause slight eye and skin irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause temporary redness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



Page 3 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; Nitrogen oxides (NOx); Phosphorus compounds; Hydrogen chloride; Other unidentified organic compounds.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS).

Page 4 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

7.3 Specific end use(s) : Reagents for single-step staining of tissue antibodies from the

Human and/or Conjugation kit.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:					
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>		
No hazardous ingredients					
	Not applicable.	European Union (OEL)	Not applicable.		

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of

insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. The filter class

for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Seek advice from respiratory protection specialists.

Skin protection: Gloves impervious to the material are recommended. Wear as appropriate: Latex

gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

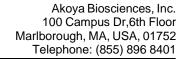
8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid.





N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022 Page 5 of 11

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Colour : Clear.
Odour : No odour.

Odour threshold : No information available.

pH : 7.4

Flash point : None. (> 90% water)
Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None known.

Explosive properties : Not explosive
Initial boiling point and boiling range

: > 100°C (based on ingredients)

Melting/Freezing point : No information available.Relative density : No information available.

Solubility in water : Soluble

Other solubility(ies) : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Nitrogen compounds

10.6 Hazardous decomposition products

Page 6 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: None known.

In the event of fire the following can be released: Carbon oxides; Metal oxides; Nitrogen oxides (NOx); Phosphorus compounds; Hydrogen chloride; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not

considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not

considered as being an allergic skin sensitiser.

Germ cell mutagenicity Carcinogenicity

: Contains no ingredient listed as a mutagen. : Contains no ingredient listed as a carcinogen.

Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

Aspiration hazard

: According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Routes of exposure

Inhalation; Skin contact; Eye contact; Ingestion

Effects of acute exposure:

Inhalation: Inhalation of mists or sprays may mildly irritate the upper respiratory tract

and cause coughing or sneezing.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself.

See below for individual ingredient acute toxicity data.

	LCso(4hr)	LC ₅₀ (4hr) LD ₅₀	
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)
No hazardous ingredients	Not applicable.	Not applicable.	Not applicable.

Page 7 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: Not expected to be harmful to aquatic organisms.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

In any dia uta	Toxicity to Fish		Toxicity to Fish	
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
No hazardous ingredients	N/Av	Not applicable.	Not applicable.	Not applicable.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
No hazardous ingredients	N/Av	Not applicable.	Not applicable.	Not applicable.

<u>Ingredients</u>	CAS No	To	oxicity to Algae	
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
No hazardous ingredients	N/Av	Not applicable.	Not applicable.	Not applicable.

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil

: The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 8 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Hand

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be

disposed of in a safe way.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous

waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the

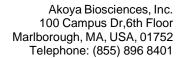
application for which the product was used.

ECTION 14	. TRANSPO	RTATION INFORMATION			
Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ADR/RID	None.	not regulated	not regulated	none	\otimes
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous go road and rail.				gerous goods b
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.				

- **14.5 Environmental hazards**: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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



Page 9 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

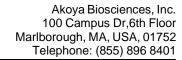
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



Page 10 of 11



N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EN: European Standard EU: European Union

HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 12/10/2018

Reviewed Date SDS (dd/mm/yyyy)

: 15/12/2022

Revision No. : 2

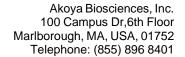
Revision Information: (M)SDS sections updated :All (format change)

Regulation and Procedure

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





N Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 11 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com

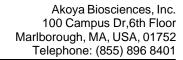


DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT



Page 1 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : J Blocker

Product Code(s) : 232110

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

: Consumers; professional use No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor

Marlborough, MA, USA

01752

Supplier Telephone Number

Austria Belgium Denmark Finland

+32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552 +358 (9) 42452710

France Poland Ireland Italy

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC - United States of America)

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 2 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

May cause slight eye and skin irritation. Fumes from heated product or mists may irritate respiratory tract. May cause gastrointestinal irritation. Incomplete toxicological data are available for this product.

PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: DNA.

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	Not applicable.	No information available.	not hazardous (self classified)	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. When symptoms persist or in all cases of doubt, seek

medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. When symptoms

persist or in all cases of doubt, seek medical advice.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing. When

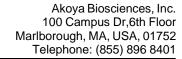
symptoms persist or in all cases of doubt, seek medical advice. Wash contaminated

clothing before reuse.

Eye contact : Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases

of doubt, seek medical advice.

4.1.2 Self-protection for the first aider



Page 3 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Incomplete toxicological data are available for this product.

Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Fumes from heated product or mists may irritate respiratory tract. May cause coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. In the event of fire the following can be released: irritating fumes and smoke.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 4 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles. Recommended storage temperature: - 20°C

7.3 Specific end use(s) : Reagents for iterative cycles of revealing and removing tags. For use in

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>
Oligodeoxyribonucleic acid	modified		
	None known.	European Union (OEL)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of

insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

: In case of insufficient ventilation wear suitable respiratory equipment. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Seek advice from respiratory protection specialists.

Skin protection: Gloves impervious to the material are recommended. Wear as appropriate: Latex gloves; Neoprene gloves. The suitability for a specific workplace should be discussed

with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid. Colour Clear. Odour No odour.

: No information available. Odour threshold pН : No information available. . No information available. Flash point Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

: No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None known. **Explosive properties** : Not explosive

Initial boiling point and boiling range

: No information available. Melting/Freezing point No information available. : No information available. Relative density

Solubility in water : Soluble

Other solubility(ies) : No information available. : No information available. Vapour pressure Vapour density No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

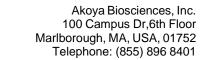
: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive. Page 5 of 11



Page 6 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: None known or reported by the manufacturer.

10.6 Hazardous decomposition products

: None known or reported by the manufacturer.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not

considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not

considered as being an allergic skin sensitiser.

Germ cell mutagenicity

Carcinogenicity

.

Contains no ingredient listed as a mutagen.Contains no ingredient listed as a carcinogen

Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure:

According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

Aspiration hazard

: According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Routes of exposure

Inhalation; Skin contact; Eye contact; Ingestion

Effects of acute exposure:

Inhalation: Fumes from heated product may irritate respiratory tract. May cause

coughing and breathing difficulties.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself. See below for individual ingredient acute

toxicity data.

Page 7 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

	LC50(4hr)	LD ₅₀		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Oligodeoxyribonucleic acid, modified	No information available.	No information available.	No information available.	

SAFETY DATA SHEET

11.2 Information on other Hazards

: Incomplete toxicological data are available for this product.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

Ingradianta	OAO N-		Toxicity to Fish	
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor		
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.		

<u>Ingredients</u>	CAS No	Toxicity to Algae		Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.		

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 8 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

Methods of Disposal

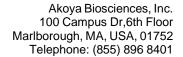
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14	. TRANSPOR	TATION INFORMATION			
Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ADR/RID	None.	not regulated	not regulated none		\otimes
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous groad and rail.				gerous goods by
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes
ICAO/IATA Additional information	NOTIC.				
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.				

- **14.5 Environmental hazards**: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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



Page 9 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

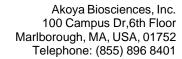
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



Page 10 of 11



J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

CECTION 16	OTHED	TATEODALATION
SECTION 10.	UIRCK	INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EN: European Standard EU: European Union

HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation

Inh: Inhalation

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 01/10/2018

Reviewed Date SDS (dd/mm/yyyy)

: 15/12/2022

Revision No. : 2

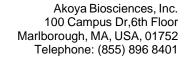
Revision Information: (M)SDS sections updated :All (format change)

Regulation and Procedure

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





J Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 11 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT

Finland



1X Plus Automation Amplification Diluent

Page 1 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : 1X Plus Automation Amplification Diluent

Product Code(s) : FP1609

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

: Research and development only. Use pattern: professional use

Refer to restrictions found in REACH Annex XVII item 30. Refer to restrictions found in REACH Annex XVII item 75.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor Marlborough, MA, USA 01752 **Supplier Telephone Number**

Austria Belgium Denmark +32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552

+358 (9) 42452710 France Poland Ireland Italy

+33 (0) 805119658 +48 (3) 23074035 +39 800768419 +353 (1) 800851675 Netherlands Spain Switzerland Sweden +31 (8) 000235193 +46 (84) 4685042 +34 91198427 +41 (3) 15281579

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC -United States of America)

1.5 National Contact customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Liquid. Characteristic odor.

Most important hazards:

Causes serious eye irritation. May damage fertility or the unborn child. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This product contains an ingredient that is present on the candidate list SVHC's of Annex XIV of the REACH Regulation 1907/2006/EC.

This product is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Hazard classification

Serious eye damage/eye irritation - Category 2A; H319

Reproductive Toxicity - Category 1B; H360DF

2.2 Label elements

Hazard pictogram(s)



1X Plus Automation Amplification Diluent

Page 2 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.





Hazardous components which must be listed on the label Sodium borate, Boric acid, Sodium stannate, Hydrogen peroxide.

Signal word

Danger

Hazard statements

H319 - Causes serious eye irritation.

H360FD - May damage fertility. May damage the unborn child.

Precautionary statements

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/clothing and eye/face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local regulation.

Supplemental information

EUH210 - Safety data sheet available on request.

2.3 Other hazards

Other hazards which do not result in classification:

Toxic fumes, gases or vapours may evolve on burning. May cause gastrointestinal irritation.

PBT assessment

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
----------------	--------	--------	------------------------------	-----------------	---	--------------------------



1X Plus Automation Amplification Diluent

Page 3 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Sodium borate	1330-43-4	215-540-4	Not available	0.1 - 1.0	Repr. 1B; H360Fd	Not applicable.
Boric Acid	10043-35-3	233-139-2	Not available	0.1 - 1.0	Repr. 1B; H360FD	Not applicable.
Stannate (Sn(OH)62-), disodium, (OC-6-11)-	12027-70-2	234-724-5	Not available	0.1 - 1.0	Skin Corr. 1; H314 Eye Dam. 1 H318	Not applicable.
Hydrogen peroxide	7722-84-1	231-765-0	Not available	0.1 - 1.0	Skin Corr. 1A ; H314 Acute Tox. 4 H332; Acute Tox. 4 ;H302 Ox. Liq. 1 H271 Notes: B	SCL: Eye Irrit. 2; H319: 5 % ≤ C < 8 % ATE Oral and Dermail >5000 mg/kg

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. Call a physician.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. If irritation or symptoms

develop, seek medical attention.

Skin contact: Wash off with plenty of water. If irritation or symptoms develop, seek medical attention.

Wash contaminated clothing before reuse.

Eye contact : Immediately flush eye(s) with plenty of water. If irritation or symptoms develop, seek

medical attention.

4.1.2 Self-protection for the first aider

: Wear protective gloves and eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

 Causes serious eye irritation. Symptoms may include stinging, tearing, redness and swelling. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

 Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. Toxic fumes, gases or vapors may evolve on burning. In the event of fire, the following can be released: Carbon oxides; Nitrogen oxides; Sodium oxides; Hydrogen chloride; Boric acid.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.



Page 4 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

 Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways, and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Absorb material with inert absorbent, and place into labelled containers for disposal. For waste disposal, see Section 13 of the SDS.

6.4 Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing mist or vapor. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles.

7.3 Specific end use(s) : Research and development only.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>
Sodium borate			
	N/Av	European Union (OEL)	N/Av
	1 mg/m³ VME;	France (OEL)	N/Av
	1 mg/m³ VLA-ED;	Spain (OEL)	N/Av
	1 mg/m³ TWA;3 mg/m³ STEL	The United Kingdom (WELs)	N/Av
Soric Acid			
	N/Av	European Union (OEL)	N/Av
	2 mg/m³ (TWA) 6 mg/m³ (STEL)	Belgium (OEL)	(as borate)
	0.5 mg/m³ (inhalable) (TWA)	Germany (OEL)	(exposure factor 2)



Page 5 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

	2 mg/m³ (TWA) 6 mg/m³ (STEL)	Spain (OEL)	Reproductive toxicant
Stannate (Sn(OH)62-), disod	um, (OC-6-11)-		
	N/Av	European Union (OEL)	N/Av
Hydrogen peroxide			
	N/Av	European Union (OEL)	N/Av
	1 ppm TWA; 1.4 mg/m³ TWA;	Denmark (OEL)	N/Av
	1 ppm TWA; 1.4 mg/m³ TWA;;	Finland (OEL)	N/Av
	1 ppm VME; 1.5 mg/m³ VME;	France (OEL)	N/Av
	;0.5 ppm MAK; 0.71 mg/m³ MAK;0.5 ppm MAK; 0.71 mg/m³ MAK	Germany (OEL)	N/Av
	1.5 mg/m³ NDS;4 mg/m³ NDSCh;	Poland (OEL)	N/Av
	1 ppm VLA-ED; 1.4 mg/m³ VLA-ED;	Spain (OEL)	N/Av
	1 ppm LLV; 1.4 mg/m³ LLV;;2 ppm CLV; 3 mg/m³ CLV	Sweden (OEL)	N/Av
	1 ppm TWA; 1.4 mg/m³ TWA;2 ppm STEL; 2.8 mg/m³ STEL	The United Kingdom (WELs)	N/Av

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear

suitable respiratory equipment.

Respiratory protection: If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and

concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. The suitability for a specific

workplace should be discussed with the producers of the protective gloves. Wear

sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Liquid



Page 6 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Colour : Clear.
Odour : Odorless.
Odour threshold : Not available.
Plash point : Not available.
Flashpoint (Method) : Not applicable

Lower flammable limit (% by vol.)

Not available.

Upper flammable limit (% by vol.)

: Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

: Not available.

Oxidizing properties : None.

Explosive properties: Not explosive **Initial boiling point and boiling range**

: 100°C

Melting/Freezing point : 0°C

Relative density : Not available.

Solubility in water : Insoluble.

Other solubility(ies) : Not available.

Vapour pressure : 23 hPa

Vapour density : 0.633

Partition coefficient: n-octanol/water

: Not available.

Viscosity : same as water

Evaporation rate (BuAe = 1)

: Not available.

Particle characteristics : Not available

9.2 Other Information

Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
: Not available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents

10.6 Hazardous decomposition products

: Sodium oxides; Boric acid; Hydrogen chloride; Nitrogen oxides

Page 7 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation: According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: Serious eye damage/eye irritation -Category 2A . Causes serious eye irritation.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1%

are mutagenic or genotoxic.

Carcinogenicity: Not expected to have carcinogenic effects. No components are listed as carcinogens

by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity: Reproductive Toxicity - Category 1B. May damage fertility or the unborn child. Boric

acid may cause fetotoxic and teratogenic effects at dose which are not maternally

toxic, based on animal data.

STOT-single exposure : According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Routes of exposure : Inhalation; Ingestion; Skin contact; Eye contact

Effects of acute exposure: Inhalation: Mild respiratory irritant

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Skin contact: Prolonged skin contact may cause skin irritation.

Eye contact: Causes serious eye irritation.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : Not classified for acute toxicity based on available data. No data is available on the

product itself.

See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD50	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
Sodium borate	> 2.04 mg/L (dust) (No mortality)	3225 - 5560 mg/kg	> 2000 mg/kg (No mortality)
Boric Acid	>2.12 mg/L	2660 mg/kg	>2000 mg/kg
Stannate (Sn(OH)62-), disodium, (OC-6-11)-	N/Av	N/Av	N/Av
Hydrogen peroxide	0.17 mg/L 4 h (no deaths)	1193 mg/kg	>2000 mg/kg

Page 8 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: Not expected to be harmful to aquatic organisms.

No data is available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

P	0.10.11	Toxicity to Fish			
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor	
Sodium borate	1330-43-4	79.7 mg/L (Fathead minnow) (Read-across)	6.4 mg/L/34 days (Zebra fish) (Read-across)	None.	
Boric Acid	10043-35-3	79.1mg/L (Fathead minnow)	102 mg/L (Fathead minnow)	None.	
Stannate (Sn(OH)62-), disodium, (OC-6-11)-	12027-70-2	N/Av	N/Av		
Hydrogen peroxide	7722-84-1	16.4mg/L (Fathead minnow)	N/Av	None.	

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Sodium borate	1330-43-4	91 mg/L Ceriodaphnia (water flea)	10.8 mg/L (Read-across)	None.
Boric Acid	10043-35-3	102 mg/L (Daphnia magna)	11.2mg/L (Daphnia magna)	None.
Stannate (Sn(OH)62-), disodium, (OC-6-11)-	12027-70-2	N/Av	N/Av	
Hydrogen peroxide	7722-84-1	2.4mg/L Water flea	N/Av	None.

Ingredients	CAS No	S No Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Sodium borate	1330-43-4	52.4 mg/L/72hr (Green algae) (Read-across)	17.5 mg/L/72hr (Read-across)	None.	
Boric Acid	10043-35-3	40mg/L (Green algae)	17.5mg/L (Green algae)	None.	
Stannate (Sn(OH)62-), disodium, (OC-6-11)-	12027-70-2	N/Av	N/Av		
Hydrogen peroxide	7722-84-1	N/Av	0.63 mg/L (Green algae)	None.	

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.



Page 9 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Sodium borate (CAS 1330-43-4)	N/Av	no evidence of bioaccumulation
Boric Acid (CAS 10043-35-3)	0.175	0
Hydrogen peroxide (CAS 7722-84-1)	1.50	no bioaccumulation

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This product does contain a substance that fulfils the criteria for persistence, but the substance does not fulfil the criteria for bioaccumulation or toxicity.

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8. This material and its container must be

disposed of in a safe way.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations.

SECTION 14. TRANSPORTATION INFORMATION



Page 10 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Regulatory Information			14.3 Transport hazard class(es)	14.4 Packing Group	Label	
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes	
ICAO/IATA Additional information	None.					
IMDG	None.	Not regulated.	not regulated	none	\otimes	
IMDG Additional information	None.					
ADR/RID	None.	not regulated	not regulated	none	\otimes	
EU ADR/RID Classification Code						
EU ADR / RID Hazard Identification Number						
ADR/RID Additional information	Not classified road and rail.	as dangerous for conveyance in the meaning of the rec	gulations for the trans	sport of dan	gerous goods by	

- **14.5 Environmental hazards**: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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



Page 11 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) No. 453/2010].

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

Refer to restrictions found in REACH Annex XVII item 30.

Refer to restrictions found in REACH Annex XVII item 75.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

CAS# 1330-43-4

CAS# 10043-35-3

CAS# 12027-70-2

CAS# 7722-84-1

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

CAS# 1330-43-4

CAS# 10043-35-3

CAS# 12027-70-2

CAS# 7722-84-1

German legislation on water endangering substances VwVwS :Water hazard class (Germany) 1

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



Page 12 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EU: European Union

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SCBA: Self-Contained Breathing Apparatus

STEL: Short Term Exposure Limit TWA: Time Weighted Average

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

21/11/2022

Regulation and Procedure

Eye irritation; Expert judgement

Reproductive toxicity; Expert judgement

H-phrases (full-text)

H271May intensify fire; oxidizer. H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

H360FD - May damage fertility. May damage the unborn child.

Other special considerations for handling

: Provide adequate information, instruction, and training for operators.



Page 13 of 13

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc.
http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT



Signature Diluent PhenoCode™ Signature Diluent

PCSA1001 Page 1 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : PhenoCode™ Signature Diluent

Product Code(s) : PCSA1001

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

: Research and development only.

Use pattern: Research and development only, professional use

No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor Marlborough, MA, 01752 USA

Telephone : (855) 896 8401

1.4 Emergency Telephone Number

: INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

1.5 National Contact

: customerservice@akoyabio.com

www.akiyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Yellow liquid. Odorless.

Most important hazards:Non-hazardous, non-flammable, non-toxic solid. Product is a highly water-soluble protein substance isolated from non-toxic plant materials.

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This substance is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label None.

Signal word None required according to Regulation (EC) No. 1272/2008.

Hazard statements

None required according to Regulation (EC) No. 1272/2008.

Akoya Biosciences, Inc. 100 Campus Dr, 6th Floor Marlborough, MA, USA, 01752

Telephone: (855) 896 8401

Signature Diluent PhenoCode™ Signature Diluent

PCSA1001 Page 2 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Precautionary statements

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

May cause slight eye and skin irritation. Fumes from heated product or mists may irritate respiratory tract. May cause gastrointestinal irritation.

PBT assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Substance

Chemical nature: Polyether compound

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Polyethylene glycol	25322-68-3	500-038-2	Not available	100.00	not hazardous	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Do not induce vomiting. Never give anything by mouth to a person who is unconscious Ingestion

or is having convulsions. Call a physician.

: If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical Inhalation

personnel only. If breathing stops, provide artificial respiration. If irritation or symptoms

develop, seek medical attention.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing. If

irritation or symptoms develop, seek medical attention. Wash contaminated clothing

before reuse.

Immediately flush eye(s) with plenty of water. If irritation or symptoms develop, seek Eye contact

medical attention.

4.1.2 Self-protection for the first aider

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Incomplete toxicological data are available for this product.

Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Fumes from heated product or mists may irritate respiratory tract. May cause coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



> PCSA1001 Page 3 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. In the event of fire the following can be released: Carbon oxides

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

: Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways, and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g., sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. For waste disposal, see Section 13 of the SDS.

6.4 Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume, or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities



> PCSA1001 Page 4 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect

periodically for damage or leaks. Keep away from incompatibles. Keep refrigerated.

7.3 Specific end use(s) : Research and development only.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:						
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>			
Polyethylene glycol	None known.	European Union (OEL)	None.			
	1000 mg/m³ MAK (average molecular weight 200-600, inhalable fraction);1000 mg/m³ MAK (average molecular weight 200-600, inhalable fraction)	Germany (OEL)	N/Av			

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient

ventilation wear suitable respiratory equipment.

Respiratory protection: Where exposure is likely to be prolonged or is unknown wear approved respiratory

protection. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Wear as appropriate: Latex

gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

Eye / face protection : Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles

See also EN 166. .

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations



PhenoCode[™] Signature Diluent

PCSA1001 Page 5 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Avoid breathing dust, fume, or vapors. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Yellow liquid.

Colour : yellow
Odour : Odorless.

Odour threshold : Not available.

ph : 5 to 7

Flash point : 138.6°C
Flashpoint (Method) : Closed cup

Lower flammable limit (% by vol.)

Not available.

Upper flammable limit (% by vol.)

Not available.

Auto-ignition temperature

Notapplicable.

Decomposition temperature

Oxidizing properties : Not available.

None known.

Explosive properties: Not explosive

Initial boiling point and boiling range

Melting/Freezing point : 205.7°C@ 977.6 hPa

: -14.08°C @ 973 hPa

Relative density : 1.116 g/cm³

Solubility in water : Soluble 256.084 g/L @ 25°C

Other solubility(ies): Not available.Vapour pressure: <0.1 hPa @ 20°C</th>Vapour density: Not available.

Partition coefficient: n-octanol/water

Viscosity : Not available.

N/Av

Evaporation rate (BuAe = 1)

Particle characteristics : Not available.

: Not applicable.

9.2 Other Information

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not applicable.

Other physical/chemical comments: No additional information.



PhenoCode[™] Signature Diluent

PCSA1001 Page 6 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid

: Avoid contact with incompatible materials. Extremely high or low temperatures.

10.5 Incompatible materials

: Strong oxidizers.

10.6 Hazardous decomposition products

: Nitrogen oxides (NOx) ;Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic

or genotoxic.

Carcinogenicity :

Reproductive toxicity : STOT-single exposure :

STOT-repeated exposure :

Aspiration hazard :

Routes of exposure : Effects of acute exposure :

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Skin contact: Direct skin contact may cause slight or mild, transient irritation.



PhenoCode[™] Signature Diluent

PCSA1001 Page 7 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Eye contact: Direct eye contact may cause slight or mild, transient irritation.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

Information on other Hazards

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : Not classified for acute toxicity based on available data. No data is available on the

product itself.

	LC50(4hr)	LD	50
Chemical name	<u>inh, rat</u>	(Oral, rat) (Ra	<u>bbit, dermal)</u>
Polyethylene glycol	N/Av	30 200 mg/kg	>20 000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

		Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h NOEC / 21 day M Factor				
Polyethylene glycol	25322-68-3	N/Av N/Av None.				

Ingredients	CAS No	Toxicity to Daphnia				Toxicity to Daphnia		
	CAS NO	EC50 / 48h	NOEC / 21 day	M Factor				
Polyethylene glycol	25322-68-3	N/Av	N/Av	None.				

Ingredients	CAS No	Toxicity to Algae			Toxicity to Algae		
		EC50 / 96h or 72h NOEC / 96h or 72h M Fa		M Factor			
Polyethylene glycol	25322-68-3	N/Av	N/Av	None.			

12.2 Persistence and degradability

The product itself has not been tested.

12.3 Bioaccumulation potential



PhenoCode[™] Signature Diluent

PCSA1001 Page 8 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

None known or reported by the manufacturer. 12.7

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

Methods of Disposal : According to the European Waste Catalogue, Waste Codes are not product specific,

but application specific. Dispose of in accordance with the European Directives on

waste and hazardous waste.

ECTION 14. TRANSPORTATION INFORMATION								
Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label			
ICAO/IATA ICAO/IATA Additional	None.	Not regulated.	not regulated	none	\otimes			
information	None.							
IMDG IMDG Additional	None.	Not regulated.	not regulated	none	\otimes			
information	None.							
ADR/RID	None.	not regulated	not regulated	none	\otimes			
EU ADR/RID Classification Code	Not applicable							
EU ADR / RID Hazard Identification Number	Not applicable							



Akoya Biosciences, Inc. 100 Campus Dr, 6th Floor Marlborough, MA, USA, 01752

Telephone: (855) 896 8401

PhenoCode[™] Signature Diluent

PCSA1001 Page 9 of 10

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

|--|--|

- 14.5 Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture. according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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

: This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830]. Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None,

Restrictions on use

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work: None of the components are specifically listed.

German legislation on water endangering substances Water hazard class (Germany) 1

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



> PCSA1001 Page 10 of 10

PhenoCode[™] Signature Diluent

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

ш			
ш	CECTION 14	OTHED	INFORMATION
ш	SPALLIUN IO.	UIDER	INTURIVIALIUN

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services EC: European Community EC50: Effective Concentration 50% EEC: European Economic Community

EU: European Union

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

OECD: Organisation for Economic Co-operation and Development OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail STEL: Short Term

Exposure Limit

TWA: Time Weighted Average WEL: Workplace Exposure Limit

1. Material Safety Data Sheet from manufacturer. Information Source

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

Preparation Date (dd/mm/yyyy) 02/09/2022

Regulation and Procedure No applicable.

Other special considerations for handling

: Provide adequate information, instruction, and training for operators.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



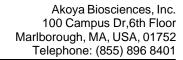
Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC TheCompliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process. This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc. **END OF DOCUMENT**



Page 1 of 11



S Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : S Blocker

Product Code(s) : 232111

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

: Consumer use; professional use No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor Marlborough, MA, USA

01752 Supplier Telephone Number

Austria Belgium Denmark Finland

+32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552 +358 (9) 42452710

France Poland Ireland Italy

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

232111

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC - United States of America)

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)



SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 2 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to skin, eyes and respiratory system. May cause gastrointestinal irritation.

PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Water; Amino alcohol; Carboxylic acid; Sodium Salt; Halogenated mineral acid; Oligonucleotides

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
 hazardous gredients	N/Av	Not applicable	Not applicable	Not applicable.	Not applicable	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. When symptoms persist or in all cases of doubt, seek

medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. When symptoms

persist or in all cases of doubt, seek medical advice.

Skin contact: Wash off with plenty of water. When symptoms persist or in all cases of doubt, seek

medical advice. Wash contaminated clothing before reuse.

: Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases of doubt, seek medical advice.

4.1.2 Self-protection for the first aider

Eye contact

: None known or reported by the manufacturer.



S Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 3 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

4.2 Most important symptoms and effects, both acute and delayed

: Mild respiratory irritant. May cause coughing and breathing difficulties.

May cause slight eye and skin irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause temporary redness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

 Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Chlorine; Hydrogen; Other unidentified organic compounds.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

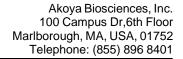
 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 4 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS).

7.3 Specific end use(s)

Reagents for single-step staining of tissue with antibodies from the Human and/or Conjugation kit.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:					
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>		
No hazardous ingredients					
	Not applicable	European Union (OEL)	Not applicable		

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation were suitable proprietors againment.

insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. The filter class

for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Seek advice from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Wear as appropriate: Latex

gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

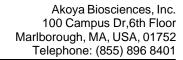
: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure control

: Avoid release to the environment.





SDS Revision Date (dd/mm/yyyy): 15/12/2022 Page 5 of 11

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid.
Colour : Clear.
Odour : No odour.

Odour threshold : No information available.

PH : No information available.

No information available.

No information available.

No information available.

Lower flammable limit (% by vol.)

: No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

: No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None known.

Explosive properties : Not explosive
Initial boiling point and boiling range

: No information available.

Melting/Freezing point: No information available.Relative density: No information available.

Solubility in water : Soluble

Other solubility(ies) : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with

incompatible materials.

Page 6 of 11



S Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Reducing agents

10.6 Hazardous decomposition products

: None known.

In the event of fire the following can be released: Carbon oxides; Nitrogen oxides

(NOx); Chlorine; Hydrogen; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not

considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not

considered as being an allergic skin sensitiser.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

: Contains no ingredient listed as a carcinogen.

: Contains no ingredient listed as a mutagen.

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

Aspiration hazard

: According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Routes of exposure

Inhalation; Skin contact; Eye contact; Ingestion

Effects of acute exposure:

Inhalation: Mild respiratory irritant. May cause coughing and breathing difficulties.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself.

See below for individual ingredient acute toxicity data.

Page 7 of 11



Blocker

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

	LCso(4hr)	LD	50
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)
No hazardous ingredients	Not applicable.	Not applicable.	Not applicable.

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: Not expected to be harmful to aquatic organisms.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

Ingradianta	CACNI		Toxicity to Fish	
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
No hazardous ingredients	N/Av	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia			Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor			
No hazardous ingredients	N/Av	N/Av	N/Av	None.			

<u>Ingredients</u>	CAS No	Toxicity to Algae			Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
No hazardous ingredients	N/Av	N/Av	N/Av	None.			

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects



SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 8 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8. This material and its container must be

disposed of in a safe way.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous

waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the

application for which the product was used.

SECTION 14					
Regulatory Information	14.1 UN Number	14.2 Old proper Shipping hame		14.4 Packing Group	Label
ADR/RID	None.	not regulated	not regulated	none	\otimes
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous go road and rail.				
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.	,			

14.5 Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

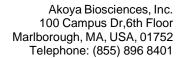
: Appropriate advice on safety must accompany the package.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15. REGULATORY INFORMATION

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





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 9 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

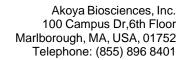
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - not water endangering (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 10 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EN: European Standard EU: European Union

HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 01/10/2018

Reviewed Date SDS (dd/mm/yyyy)

: 15/12/2022

Revision No. : 2

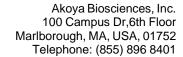
Revision Information : (M)SDS sections updated: All (format change)

Regulation and Procedure :

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 11 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT



PhenoCode™ Signature Blocker 1

SDS Revision Date (dd/mm/yyyy): 01/10/2018

Revision No.: 2

Page 1 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : PhenoCodeTM Signature Blocker 1

Product Code(s) : 200039

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

: Consumer use; professional use No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr,

6th Floor

Marlborough, MA, USA

01752

Supplier Telephone Number

Austria Belgium Denmark Finland

+32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552 +358 (9) 42452710

France Poland Ireland Italy

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC - United States of America)

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.



PhenoCode[™] Signature Blocker 1 SDS Revision Date (dd/mm/yyyy): 01/10/2018 Revision No.: 2

Page 2 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing. May cause slight eye and skin irritation. May cause gastrointestinal irritation.

PBT assessment: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Water; Buffered saline; Sodium salts; Phosphate salt; BSA; Carboxylic acid; IgG The following substances shall be indicated according to legislation:

Substance name	<u>CAS No</u>	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
No hazardous ingredients	N/Av	Not applicable	Not applicable	Not applicable.	Not applicable	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion: Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. When symptoms persist or in all cases of doubt, seek

medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. When symptoms

persist or in all cases of doubt, seek medical advice.

: Wash off with plenty of water. When symptoms persist or in all cases of doubt, seek

medical advice. Wash contaminated clothing before reuse.

Eye contact : Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases

of doubt, seek medical advice.

4.1.2 Self-protection for the first aider

Skin contact

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

 Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

May cause slight eye and skin irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause temporary redness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



PhenoCode[™] Signature Blocker 1 SDS Revision Date (dd/mm/yyyy): 01/10/2018 Revision No.: 2

Page 3 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

 Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

· None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; Nitrogen oxides (NOx); Phosphorus compounds; Hydrogen chloride; Other unidentified organic compounds.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

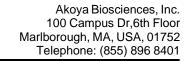
SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS).





PhenoCode[™] Signature Blocker 1 SDS Revision Date (dd/mm/yyyy): 01/10/2018

Revision No.: 2

Page 4 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

7.3 Specific end use(s)

Reagents for single-step staining of tissue with antibodies from the

Human and/or Conjugation kit.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:								
<u>Chemical Name</u> <u>Exposure Limits</u>		<u>Type</u>	<u>Notes</u>					
No hazardous ingredients								
	Not applicable	European Union (OEL)	Not applicable					

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of

insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. The filter class

for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Seek advice from respiratory protection specialists.

Skin protection: Gloves impervious to the material are recommended. Wear as appropriate: Latex

gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

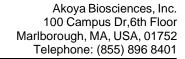
8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid.





PhenoCode[™] Signature Blocker 1

SDS Revision Date (dd/mm/yyyy): 01/10/2018

Revision No.: 2

Page 5 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Colour : Clear.
Odour : No odour.

Odour threshold : No information available.

pH : 7.4

Flash point : None. (> 90% water)
Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

: No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

: No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None known.

Explosive properties : Not explosive
Initial boiling point and boiling range

: > 100°C (based on ingredients)

Melting/Freezing point : No information available.Relative density : No information available.

Solubility in water : Soluble

Other solubility(ies) : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Nitrogen compounds

10.6 Hazardous decomposition products



SDS Revision Date (dd/mm/yyyy): 01/10/2018

Revision No.: 2

Page 6 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

None known.

In the event of fire the following can be released: Carbon oxides; Metal oxides; Nitrogen oxides (NOx); Phosphorus compounds; Hydrogen chloride; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not

considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not

considered as being an allergic skin sensitiser.

Germ cell mutagenicity

Carcinogenicity

Aspiration hazard

: Contains no ingredient listed as a mutagen. : Contains no ingredient listed as a carcinogen.

Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

: According to the classification criteria of the European Union, this product is not STOT-single exposure

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Inhalation; Skin contact; Eye contact; Ingestion Routes of exposure

Effects of acute exposure: Inhalation: Inhalation of mists or sprays may mildly irritate the upper respiratory tract

and cause coughing or sneezing.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself.

See below for individual ingredient acute toxicity data.

	LCso(4hr)	LD:	50
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
No hazardous ingredients	Not applicable.	Not applicable.	Not applicable.



Page 7 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: Not expected to be harmful to aquatic organisms.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

<u>Ingredients</u>	0404	Toxicity to Fish			
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor	
No hazardous ingredients	N/Av	N/Av	N/Av	None.	

<u>Ingredients</u>	CAS No	Toxicity to Daphnia			Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor			
No hazardous ingredients	N/Av	N/Av	N/Av	None.			

<u>Ingredients</u>	CAS No	Toxicity to Algae			Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
No hazardous ingredients	N/Av	N/Av	N/Av	None.			

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.



Page 8 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Har

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Methods of Disposal

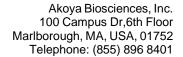
: Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

			14.3			
Regulatory 14.1 UN Information Number		14.2 UN proper shipping name	Transport hazard class(es)	14.4 Packing Group	Label	
ADR/RID	None.	not regulated	lated not regulated none		\otimes	
ADR/RID Additional information	Not classified road and rail.	as dangerous for conveyance in the meaning of the regulat	ions for the trans	sport of dan	gerous goods b	
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes	
ICAO/IATA Additional information	None.					
IMDG	None.	Not regulated.	not regulated	none	\otimes	
IMDG Additional information	None.	I	1			

- **14.5 Environmental hazards**: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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





Page 9 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

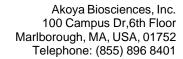
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.





SDS Revision Date (dd/mm/yyyy): 01/10/2018

Revision No.: 2

Page 10 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EN: European Standard EU: European Union

HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 01/10/2018

Reviewed Date SDS (dd/mm/yyyy)

: 01/10/2018

Revision No. : 2

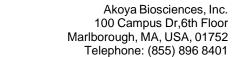
Revision Information: (M)SDS sections updated :All (format change)

Regulation and Procedure :

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





Page 11 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com

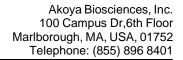


DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT



Page 1 of 11



PhenoCode[™] Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : PhenoCodeTM Signature Blocker 5

Product Code(s) : 200040

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

: Consumers; professional use No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Akoya Biosciences, Inc.

100 Campus Dr, 6th Floor

Marlborough, MA, USA

01752

Supplier Telephone Number

Austria Belgium Denmark Finland

+32 (2) 3203033 +32 (2) 32023033 +45 (8) 0703552 +358 (9) 42452710

France Poland Ireland Italy

United Kingdom United States of America

+44 (20) 45252848 (855) 896 8401

1.4 Emergency Telephone Number

: +1 (352) 323-3500 (INFOTRAC - United States of America)

1.5 National Contact : customercareemea@akoyabio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. No odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)

Page 2 of 11



PhenoCodeTM Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

May cause slight eye and skin irritation. Fumes from heated product or mists may irritate respiratory tract. May cause gastrointestinal irritation. Incomplete toxicological data are available for this product.

PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: DNA.

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	<u>% Weight</u>	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	Not available	10 mg/mL	not hazardous (self classified)	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion: Do not induce vomiting. Never give anything by mouth to a person who is unconscious

or is having convulsions. When symptoms persist or in all cases of doubt, seek

medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. When symptoms

persist or in all cases of doubt, seek medical advice.

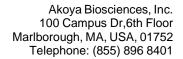
Skin contact : Immediately flush with plenty of water, while removing contaminated clothing. When

symptoms persist or in all cases of doubt, seek medical advice. Wash contaminated

clothing before reuse.

Eye contact : Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases

of doubt, seek medical advice.



Page 3 of 11



PhenoCode[™] Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Incomplete toxicological data are available for this product.

Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Fumes from heated product or mists may irritate respiratory tract. May cause coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not classified as flammable. In the event of fire the following can be released: irritating fumes and smoke.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Page 4 of 11



PhenoCode[™] Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles. Recommended storage temperature: - 20°C

7.3 Specific end use(s)

Reagents for iterative cycles of revealing and removing tags. For use in CODEX MPI fluidics instrument.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>
Oligodeoxyribonucleic acid	modified		
	None known.	European Union (OEL)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

Skin protection

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. The filter class

for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Seek advice from respiratory protection specialists.

: Gloves impervious to the material are recommended. Wear as appropriate: Latex gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection: Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations



SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

> : Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure control

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid. Colour Clear. Odour No odour.

: No information available. Odour threshold pН : No information available. . No information available. Flash point Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

No information available.

Upper flammable limit (% by vol.)

: No information available.

Auto-ignition temperature

: No information available.

Decomposition temperature

: No information available.

Oxidizing properties : None known. **Explosive properties** : Not explosive

Initial boiling point and boiling range

: No information available. Melting/Freezing point No information available. : No information available.

Solubility in water : Soluble

Other solubility(ies) : No information available. : No information available. Vapour pressure Vapour density No information available.

Partition coefficient: n-octanol/water

: No information available.

Viscosity : No information available.

Evaporation rate (BuAe = 1)

: No information available.

Particle characteristics : Not applicable.

9.2 Other Information

Relative density

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

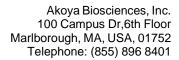
: No information available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive. Page 5 of 11



Page 6 of 11



PhenoCode[™] Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

· ·

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: None known or reported by the manufacturer.

10.6 Hazardous decomposition products

: None known or reported by the manufacturer.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not

considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, the product is not

considered as being a skin irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not

considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not

considered as being an allergic skin sensitiser.
: Contains no ingredient listed as a mutagen.

Germ cell mutagenicity

Carcinogenicity

. .

: Contains no ingredient listed as a carcinogen

Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure:

According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

: According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Aspiration hazard
Routes of exposure

Inhalation; Skin contact; Eye contact; Ingestion

Effects of acute exposure :

Inhalation: Fumes from heated product may irritate respiratory tract. May cause

coughing and breathing difficulties.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct

skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye

contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself. See below for individual ingredient acute

toxicity data.

Page 7 of 11



PhenoCode™ Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

	LC₅₀(4hr)	LD ₅₀	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
Oligodeoxyribonucleic acid, modified	No information available.	No information available.	No information available.

11.2 Information on other Hazards

: Incomplete toxicological data are available for this product.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

Ingradianta	OAO N-	Toxicity to Fish		
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia			Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor			
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.			

<u>Ingredients</u>	CAS No	Toxicity to Algae			Toxicity to Algae	
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Oligodeoxyribonucleic acid, modified	N/Av	No information available.	No information available.	None.		

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects



SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 8 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

Methods of Disposal

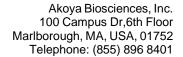
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION							
Regulatory Information	14.1 UN Number	14.2 Old proper shipping hame		14.4 Packing Group	Label		
ADR/RID	None.	not regulated	not regulated	none	\otimes		
ADR/RID Additional information	Not classified road and rail.	as dangerous for conveyance in the meaning of the regulation	ons for the trans	sport of dan	gerous goods by		
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes		
ICAO/IATA Additional information	None.			ı			
IMDG	None.	Not regulated.	not regulated	none	\otimes		
IMDG Additional information	None.	1	1				

- **14.5 Environmental hazards**: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
- 14.6 Special precautions for user
 - : Appropriate advice on safety must accompany the package.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - : Not applicable.

SECTION 15. REGULATORY INFORMATION

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





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 9 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

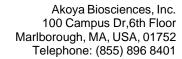
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.





SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 10 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

ISING I ICHA IO. CHI IIINN INTCHINICIA I ICHA	SECTION 16.	OTHER I	NFORMATION
---	-------------	---------	------------

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency

EN: European Standard EU: European Union

HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation

Inh: Inhalation

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 27/09/2018

Reviewed Date SDS (dd/mm/yyyy)

: 15/12/2022

Revision No. : 2

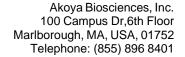
Revision Information: (M)SDS sections updated :All (format change)

Regulation and Procedure

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





PhenoCode™ Signature Blocker 5

SDS Revision Date (dd/mm/yyyy): 15/12/2022

Revision No.: 2

Page 11 of 11

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Prepared for:

Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401



Prepared by:

ICC The Compliance Center Inc.
http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Akoya Biosciences, Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Akoya Biosciences, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process. This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Akoya Biosciences, Inc.

END OF DOCUMENT

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified.

