

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
	1104401	i aoni i i i i o i

IOX AR6 Buffer, 125 mL

Product Code(s) : AR600125ML

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

Supplier Telephone Number

:	Austria	Belgium	Denmark	Finland
	+32 (2) 3203033	+32 (2) 32023033	+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	+46 (84) 4685042	+34 91198427	+41 (3) 15281579
	United Kingdom	United States of An	nerica	
	+44 (20) 45252848	(855) 896 8401		
1.4 Emergency Telephone Num	ber	· · ·		
:	+1 (352) 323-3500 (I	NFOTRAC -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 required according to Regulation (EC) No. 1272/2008.

Hazard statements:

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

None.

Signal word:



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

10X AR6 Buffer, 125 mL SDS Preparation Date (dd/mm/yyyy): 21/11/2022

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

: 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. 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.
he first aider
: None known or reported by the manufacturer.
toms 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.
ediate medical attention and special treatment needed
: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



10X AR6 Buffer, 125 mL

SDS Preparation Date (dd/mm/yyyy): 21/11/2022

Page 3 of 10

SAFETY DATA SHEET

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

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);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 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).

 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.

Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>
No hazardous ingredients a	ove concentration cut-offs		
	Not applicable.	European Union (OEL)	Not applicable.
Biological Exposure Indi	ces:		
No biological exposure limit	s noted for the ingredient(s).		
Derived No Effect Level (DNEL No information available.	_):		
Predicted No Effect Concentra No information available. <u>8.2 Exposure controls</u>	ition (PNEC):		
Ventilation and engineer	ing measures		
Respiratory protection Skin protection	 Provide adequate ventilation. App occupational exposure limits. Wh by the use of local exhaust ventilation insufficient ventilation wear suital In case of insufficient ventilation ventilation ventilation for the respirator must be suitable concentration (gas/vapour/aeros product. If this concentration is ex- used. Seek advice from respirator Gloves impervious to the material 	ere reasonably practicable this ation and good general extracti- ble respiratory equipment. wear suitable respiratory equipre for the maximum expected co- bl/particulates) that may arise v kceeded, self-contained breath ry protection specialists. are recommended. Wear as a	should be achieved on. In case of nent. The filter class ntaminant when handling the ing apparatus must be ppropriate: Latex
	gloves; Neoprene gloves. The su with the producers of the protecti satisfy the specifications of EU D from it. Wear sufficient clothing to	ve gloves. The selected protect irective 89/689/EEC and the sta prevent skin contact.	ive gloves have to andard EN 374 derive
Eye / face protection	: vvear as appropriate. Salety glas	ses with side shields; Tightly fit	ting safety goggles.
Eye / face protection	See also EN 166.	ses with side shields; Tightly fit	ting safety goggles.
Eye / face protection Other protective equipme	See also EN 166. ent		
Other protective equipme	See also EN 166. ent : Ensure that eyewash stations an Other equipment may be require	d safety showers are close to t	he workstation locatio
	See also EN 166. ent : Ensure that eyewash stations an Other equipment may be require erations : Avoid breathing dust, fume or va Wash thoroughly after handling. re-use. Handle in accordance wit	d safety showers are close to the depending on workplace stan pors. Avoid contact with skin, e Remove and wash contaminate	he workstation locatio dards. eyes and clothing. ed clothing before

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.
рН	: Not available.
Flash point	: Not available.
Flashpoint (Method)	: No information available.



Page 5 of 10

SAFETY DATA SHEET

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

Lower flammable limit (%	by	/ vol.)
	:	No information available.
Upper flammable limit (%	by	v vol.)
	:	No information available.
Auto-ignition temperature		
	:	No information available.
Decomposition temperature	re	
	:	2000°C
Oxidizing properties	:	None.
Explosive properties	:	Not explosive
Initial boiling point and bo	ili	ng range
	:	> 100°C (based on ingredients)
Melting/Freezing point	:	0°C
Relative density	:	1
Solubility in water	:	Soluble
Other solubility(ies)	:	No information available.
Vapour pressure	:	23 hPa
Vapour density	:	(Air = 1) 0.633
Partition coefficient: n-oct	ar	nol/water
	:	No information available.
Viscosity	:	same as water
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
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
SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:



SDS Preparation Date (dd/mm/yyyy): 21/11/2022

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

Page 6 of 10

SAFETY DATA SHEET

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

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/irrita	tic	on de la constante de la const
	:	According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
Respiratory or skin sensition	tis	
	:	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.
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.
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 E	ff	ects
	:	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) LD50		0
Chemical name inh, rat		<u>(Oral, rat)</u>	(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

- 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.



Page 7 of 10

SAFETY DATA SHEET

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

Ecotoxicity data:

Ingradianta		Toxicity to Fish			
Ingredients	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			
		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			
		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.



Page 8 of 10

SAFETY DATA SHEET

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

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.

Regulatory nformation	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	\bigotimes
ADR/RID Additional nformation	Not classified a road and rail.	as dangerous for conveyance in the meaning of the regul	lations for the trans	sport of dan	gerous goods l
ICAO/IATA	None.	Not regulated.	not regulated	none	\bigotimes
ICAO/IATA Additional nformation	None.				
IMDG	None.	Not regulated.	not regulated	none	\oslash
IMDG Additional	None.	1			1

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 10

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.

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		



10X AR6 Buffer, 125 mL

SDS Preparation Date (dd/mm/yyyy): 21/11/2022

Page 10 of 10

SAFETY DATA SHEET

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

Information Source	:	 Material Safety Data Sheet from manufacturer. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases European Chemicals Agency, Classification Legislation OECD - The Global Portal to Information on Chemical Substances 		
Preparation Date (dd/mm/yy	уу)			
	:	21/11/2022		
Regulation and Procedure	:			
Not applicable.				
Other special consideration	s fo	r handling		
	:	Provide adequate information, instruction and training for operators.		
Prepared for:				

Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com	icc Compliance Center
Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401	AKOYA BIOSCIENCES®

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