

Antibody for PhenoCode Signature

Catalog #'s: S6501000, S6501001, S6501002, S6501003, S6501004, S6501005, S6501006, S6501007, S6501008, S6501009, S6501010, S6501011, S6501012, S6501013

Antibodies for PhenoCode™ Signature are provided as multi-component kits. Safety Data Sheets are provided in this document for each component supplied per kit.

Catalog #	Description	Component #	Component Description
S6501000	Anti-Hu Pan-Cytokeratin (AKYP0053)-BX066 for PhenoCode Signature	240229	Anti-Hu Pan-Cytokeratin (AKYP0053)
		PCSD066	HRP-HX066 PhenoCode Signature Detector
S6501001	Anti-Hu CD8 (AKYP0028)-BX026 for PhenoCode Signature	232151S	Anti-Hu CD8 (AKYP0028)-BX026
		PCSD026	HRP-HX026 PhenoCode Signature Detector
S6501002	Anti-Hu CD4 (AKYP0048)-BX003 for PhenoCode Signature	232174	Anti-Hu CD4 (AKYP0048)-BX003
		PCSD003	HRP-HX003 PhenoCode Signature Detector
S6501003	Anti-Hu CD3e (AKYP0125)-BX080 for PhenoCode Signature	240227	Anti-Hu CD3e (AKYP0125)-BX080
		PCSD080	HRP-HX008 PhenoCode Signature Detector
S6501004	Anti-Hu CD68 (AKYP0050)-BX015 for PhenoCode Signature	232176	Anti-Hu CD68 (AKYP0050)-BX015
		PCSD015	HRP-HX015 PhenoCode Signature Detector
S6501005	Anti-Hu CD163 (AKYP0114)-BX069 for PhenoCode Signature	240182	Anti-Hu CD163 (AKYP0114)-BX069
		PCSD069	HRP-HX069 PhenoCode Signature Detector
S6501006	Anti-Hu Ki67 (AKYP0126)-BX047 for PhenoCode Signature	240232	Anti-Hu Ki67 (AKYP0126)-BX047
		PCSD047	HRP-HX047 PhenoCode Signature Detector
S6501007	Anti-Hu FOXP3 (AKYP0102)-BX031 for PhenoCode Signature	240170	Anti-Hu FOXP3 (AKYP0102)-BX031
		PCSD031	HRP-HX031 PhenoCode Signature Detector
S6501008	Anti-Hu CD20 (AKYP0049)-BX064 for PhenoCode Signature	240230	Anti-Hu CD20 (AKYP0049)-BX064
		PCSD064	HRP-HX064 PhenoCode Signature Detector
S6501009	Anti-Hu Granzyme B (AKYP0086)-BX041 for PhenoCode Signature	240074S	Anti-Hu Granzyme B (AKYP0086)-BX041
		PCSD041	HRP-HX041 PhenoCode Signature Detector
S6501010	Anti-Hu PD-1 (AKYP0127)-BX046 for PhenoCode Signature	240231	Anti-Hu PD-1 (AKYP0127)-BX046
		PCSD046	HRP-HX046 PhenoCode Signature Detector
S6501011	Anti-Hu PD-L1 (AKYP0103)-BX067 for PhenoCode Signature	240228	Anti-Hu PD-L1 (AKYP0103)-BX067
		PCSD067	HRP-HX067 PhenoCode Signature Detector
S6501012	Anti-Hu CD45RO (AKYP0059)-BX017 for PhenoCode Signature	232188	Anti-Hu CD45RO (AKYP0059)-BX017
		PCSD017	HRP-HX017 PhenoCode Signature Detector
S6501013	Anti-Hu SMA (AKYP0081)-BX013 for PhenoCode Signature	240068	Anti-Hu SMA (AKYP0081)-BX013
		PCSD013	HRP-HX013 PhenoCode Signature Detector

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
 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 : PhenoCycler™ or Phenolmager Antibody

Product Code(s) :

232122	232123	232124	232125	232126	232127	232128	232129	232130	232131
232132	232133	232134	232135	232136	232137	232138	232139	232140	232141
232142	232143	232144	232145	232146	232147	232148	232149	232150	232151
232152	232153	232154	232155	232156	232157	232158	232159	232160	232161
232162	232163	232164	232165	232166	232167	232168	232169	232170	232171
232172	232173	232174	232175	232176	232177	232178	232180	232181	232182
232183	232184	232185	232186	232187	232188	232189	240001	240003	240004
240006	240017	240018	240019	240020	240021	240022	240033	240034	240035
240036	240058	240059	240060	240061	240062	240064	240065	240066	240077
240068	240069	240070	240071	240072	240073	240074	240075	240076	240077
240078	240079	240080	240081	240082	240083	240084	240125	240126	240127
240128	240129	240170	240171	240172	240173	240174	240175	240176	240177
240178	240179	240180	240181	240182	240183	240184	240185	240186	240187
240188	240189	240190	240191	240192	240200	240201	240202	240203	232179
200066	200067	200068	200069	200070	200071	240228	240229	240230	240231
240227	240232	240074S	232151S						

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

: Validated set of PhenoCycler™ (formerly CODEX®) or Phenolmager-tagged anti-human antibodies ready for use with the PhenoCycler™ (formerly CODEX®) or Phenolmager assay. Used in PhenoCycler™ (formerly CODEX®) MPI or Phenolmager fluidics instrument.

Use pattern: 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

PhenoCycler™ or Phenolmager AntibodySDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 2 of 12

SAFETY DATA SHEET

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

: 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 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

: customercaremea@akoyobio.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.

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:

EUH210 - Safety data sheet available on request.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to skin and respiratory system. Direct eye contact may cause slight or mild, transient irritation. May cause gastrointestinal irritation. In extremely high concentrations, may cause symptoms of central nervous system depression.

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).

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 3 of 12

SAFETY DATA SHEET

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Water; glycol; Sodium Salt; Carboxylic acid; Oligodeoxyribonucleic acid, modified; Antibodies; Proteins; Preservatives

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL M-factor, ATE
Ethylene glycol	107-21-1	203-473-3	Not available	4.843	*Acute Tox. 4; H302	ATE oral = 22935.77 mg/kg

*Note: The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': Ethylene glycol.

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. 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* : For skin contact, wash with soap and 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

- : None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

- : Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.
May be mildly irritating to skin and respiratory system. May cause coughing and breathing difficulties. Direct skin contact may cause temporary redness.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Prolonged or repeated ingestion may cause bladder or kidney stones.

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

PhenoCycler™ or Phenolmager Antibody

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

Page 4 of 12

Revision No.: 2

SAFETY DATA SHEET

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

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. However, may burn if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; Metal 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

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. 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

- : 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. Empty containers retain residue and can be dangerous.

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)

- : Validated set of CODEX tagged anti human antibodies ready for use with the CODEX assay. Used in CODEX MPI fluidics instrument.

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 5 of 12

SAFETY DATA SHEET

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	Type	Notes
Ethylene glycol	20 ppm (52 mg/m ³) (TWA) 40 ppm (104 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	20 ppm (52 mg/m ³) (TWA) 40 ppm (104 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	10 ppm (26 mg/m ³) (exposure factor 2) (TWA)	Germany (OEL)	Skin notation
	20 ppm (52 mg/m ³) (TWA) 40 ppm (104 mg/m ³) (STEL)	Italy (OEL)	skin - potential for cutaneous absorption
	15 mg/m ³ (TWA) 50 mg/m ³ (STEL)	Poland (OEL)	None.
	20 ppm (52 mg/m ³) (TWA) 40 ppm (104 mg/m ³) (STEL)	Spain (OEL)	skin - potential for cutaneous exposure
	10 ppm (25 mg/m ³) (TWA) 20 ppm (50 mg/m ³) (STEL)	Sweden (OEL)	Skin notation
	10 mg/m ³ (particulate); 20 ppm (52 mg/m ³) (vapour) (TWA) 40 ppm (104 mg/m ³) (vapour) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption

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. 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.

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 6 of 12

SAFETY DATA SHEET

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

- 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 Controlo da exposição ambiental

- : 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.
- Odour threshold** : No information available.
- pH** : No information available.
- Flash point** : No information available.
- 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.
- 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.

PhenoCycler™ or Phenolmager Antibody

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

Page 7 of 12

Revision No.: 2

SAFETY DATA SHEET

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

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 (Perchlorates; Permanganates; Iodine pentafluoride; Silver fluoride, etc.); Strong acids; Strong bases; Halogenated compounds

10.6 Hazardous decomposition products

: None known.

In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; 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 : 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; Skin Absorption; Eye contact; Ingestion

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 8 of 12

SAFETY DATA SHEET

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

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

Skin contact: May cause mild skin irritation. Direct skin contact may cause temporary redness. Can be absorbed through skin.

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

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Potential Chronic Health Effects

: Prolonged or repeated ingestion may cause bladder or kidney stones.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself. The calculated ATE values for this mixture are:
ATE oral = 22 935.77mg/kg

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethylene glycol	4300 ppm (10.92 mg/L) (aerosol)	^{4000 (rat)} The estimated human lethal dose is: 1110 - 1665 mg/kg	9530 mg/kg

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.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC₅₀ / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Ethylene glycol	107-21-1	22 810 mg/L (Rainbow trout)	No information available.	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC₅₀ / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Ethylene glycol	107-21-1	49 000 mg/L (Daphnia magna)	7500 - 15 000 mg/L	None.

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 9 of 12

SAFETY DATA SHEET

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

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethylene glycol	107-21-1	6500 - 13 000 mg/L/96hr (Green algae)	10 000 mg/L/96hr	None.

12.2 Persistence and degradability

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Ethylene glycol.

12.3 Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ethylene glycol (CAS 107-21-1)	- 1.36	10

- 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




PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 10 of 12

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	
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
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:

Ethylene glycol (CAS # 107-21-1)

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

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 11 of 12

SAFETY DATA SHEET

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2020/878].

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
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
QSAR: Quantitative structure-activity relationship
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, CCIInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy) : 28/09/2018

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

Revision No. : 2

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

Regulation and Procedure :

PhenoCycler™ or Phenolmager Antibody

SDS Revision Date (dd/mm/yyyy): 01/10/2018
Revision No.: 2

Page 12 of 12

SAFETY DATA SHEET

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

Based on expert judgement:
 not regulated

H-phrases (full-text)
 H302 - Harmful if swallowed.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Akoya Biosciences, Inc. 100 Campus Dr., 6th Floor Marlborough, MA 01752 Telephone: (855) 896 8401</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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END OF DOCUMENT

PhenoCode™ Signature Detector

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

Page 1 of 14

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 Detector**

Product Code(s) : PCSD067, PCSD069, PCSD015, PCSD046, PCSD026, PCSD066, PCSD080, PCSD064, PCSD047, PCSD041, PCSD031, PCSD003, PCSD076, PCSD078, PCSD013, PCSD017

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

: Reagent for tagging a custom antibody.
Use pattern: Professional use only
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

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@akoybio.com
www.akoybio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Light brown solid. No odour.

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.

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.

Hazard statements:

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

PhenoCode™ Signature Detector

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

Page 2 of 14

SAFETY DATA SHEET

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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:

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

PhenoCode™ Signature Detector

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

Page 3 of 14

SAFETY DATA SHEET

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

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.

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

SAFETY DATA SHEET

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

: 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

: 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)

: Reagent for tagging a custom antibody

SAFETY DATA SHEET

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<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. 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 controls

: Avoid release to the environment.

PhenoCode™ Signature Detector

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

Page 6 of 14

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	: Light brown solid.
Colour	: light brown
Odour	: No odour.
Odour threshold	: No information available.
pH	: No information available.
Flash point	: No information available.
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.
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.

PhenoCode™ Signature Detector

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

Page 7 of 14

SAFETY DATA SHEET

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

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**

: None known or reported by the manufacturer.

10.6 Hazardous decomposition products

: None known or reported by the manufacturer.

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** : 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.
- 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: 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.
- Information on other Hazards** : Incomplete toxicological data are available for this product.

11.1.1 Acute Toxicity

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

PhenoCode™ Signature Detector

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

SAFETY DATA SHEET

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<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Oligodeoxyribonucleic acid, modified	No information available.	No information available.	No information available.

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:

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

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

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

PhenoCode™ Signature Detector

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

Page 10 of 14

SAFETY DATA SHEET

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

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.

PhenoCode™ Signature Detector




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

Page 11 of 14

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.

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

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.

SAFETY DATA SHEET

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SECTION 16. OTHER INFORMATION

Legend

- : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
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- 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

Information Source

- : 1. Material Safety Data Sheet from manufacturer.
- 2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases
- 3. European Chemicals Agency, Classification Legislation

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PhenoCode™ Signature Detector

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

Page 14 of 14

SAFETY DATA SHEET

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Regulation and Procedure :

Not applicable.

Other special considerations for handling

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

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

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