Polyethylenimine, Linear, MW 2,500 (PEI 2500) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Supersedes: 01/09/2002

Kyfora Bio BY Polysciences Issue date: 04/09/2021

Version: 1.0

Internation Substance Product form : Substance Product form : Polyethyleninnine, Linear, MW 2,500 (PEI 2500) CAS-No. : 9002-96-6 Product code : 24313 Formula : (C245N)x 2. Recommended use and restrictions or use Recommended use : Use as laboratory reagent, Manufacture of substances 3. Supplier Styping Intergence number : Use as laboratory reagent, Manufacture of substance 767 (Electron 1904 - United States try (Styping Bio Protein Pro	ECTION 1: Identification					
Product from : Substance Trade name : Polyethylenimine, Linear, MW 2,500 (PEI 2500) CAS-No. : POlyethylenimine, Linear, MW 2,500 (PEI 2500) Product code : 24313 Formula : (24150)x 2. Recommended use and restrictions on use						
CAS-No. : 9002-94-6 Product code : 24313 Formula : (C2HSN)k : 2. Recommended use and restrictions on use Recommended use and restrictions on use Supplier Supplie	Product form	: Substance				
Product code : 24313 Formula : (C2HSN)k 2. Recommended use and restrictions on use Recommended use and restrictions on use	Trade name	: Polyethylenimine, Line	ar, MW 2,500 (PEI 250	0)		
Formula : (C2H5N)x 2. Recommended use and restrictions on use Recommended use is is use a laboratory reagent, Manufacture of substances 3. Supplier Skyfora Bio Tor Electronic Drive Horsham, PA 19044 - United States T (2H5) 343-6484 www.ktorabio.com	CAS-No.	9002-98-6				
2. Recommended use and restrictions on use Recommended use : Use as laboratory reagent, Manufacture of substances 3. Supplier Syspiler Stretchich Drive Horsham, PA 19044 - United States T (215) 343-4644 www.kyforabo.com	Product code	: 24313				
Recommended use : Use as laboratory reagent, Manufacture of substances 3. Supplier	Formula	: (C2H5N)x				
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Kydria Bio 767 Electronic Drive Morsham, PA 19044 - United States 7(215) 343-4644 www.kydrabio.com : 24-bour emergency phone number ChemTel 1-800-255-3924 SECTION 2: Hazard(s) identification Cals adiabation of the substance or mixture Section 2: Hazard(s) identification Acute toxicity (dernal) Calegory 4 Statistication Acute toxicity (dernal) Calegory 2 Section 2: Hazard(s) Identification Acute toxicity (dernal) Calegory 4 Statistication Acute toxicity (dernal) Calegory 2 Cales assification Acute toxicity (dernal) Calegory 2 Signal word (GHS US) Waring Hazard statements (GHS US) Waring Hazard statements (GHS US) Waring Harmful in contact with skin Cale a poison certer or dorotor if you feel turvell. Specific treatment (see supplemental first ad instruction on this label) Specific treatment (see supplemental first ad instruction on this label) <td c<="" td=""><td>I.3. Supplier</td><td></td><td></td><td></td><td></td></td>	<td>I.3. Supplier</td> <td></td> <td></td> <td></td> <td></td>	I.3. Supplier				
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					Acute Tox. 4 (Dermal),	

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	of hazard classes and H-statements : se	e section 16		
3.2.	2. Mixtures			
Not app	licable			
SECT	ION 4: First-aid measures			
4.1.	Description of first aid measures			
First-a	id measures general	: Call a poison center/doctor/physician if you feel unwell.		
First-a	id measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-a	id measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.		
First-a	id measures after eye contact	: Rinse eyes with water as a precaution.		
First-a	id measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.		
4.2.	Most important symptoms and effec	ts (acute and delayed)		
Sympt	oms/effects after skin contact	: Irritation.		
4.3.	Immediate medical attention and spe	ecial treatment, if necessary		
Treat sy	mptomatically.			
SECT	ION 5: Fire-fighting measures			
5.1.	Suitable (and unsuitable) extinguish	ing media		
	le extinguishing media	: Water spray. Dry powder. Foam.		
5.2.	Specific hazards arising from the ch			
fire	dous decomposition products in case of	: Toxic fumes may be released.		
5.3.	Special protective equipment and pr			
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECT	ION 6: Accidental release meas	sures		
6.1.	Personal precautions, protective equ	uipment and emergency procedures		
	Personal precautions, protective equ	uipment and emergency procedures		
6.1.1.	For non-emergency personnel			
6.1.1. Emerg	For non-emergency personnel ency procedures	 ipment and emergency procedures Ventilate spillage area. Avoid contact with skin, eyes and clothing. 		
6.1.1. Emerg 6.1.2.	For non-emergency personnel gency procedures For emergency responders	: Ventilate spillage area. Avoid contact with skin, eyes and clothing.		
6.1.1. Emerg 6.1.2.	For non-emergency personnel ency procedures			
6.1.1. Emerg 6.1.2.	For non-emergency personnel gency procedures For emergency responders	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information 		
6.1.1. Emerg 6.1.2. Protect	For non-emergency personnel ency procedures For emergency responders tive equipment	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information 		
6.1.1. Emerg 6.1.2. Protect	For non-emergency personnel ency procedures For emergency responders tive equipment Environmental precautions	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3.	For non-emergency personnel ency procedures For emergency responders stive equipment Environmental precautions elease to the environment.	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho	For non-emergency personnel gency procedures For emergency responders tive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho Other 6.4.	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho Other 6.4. For furth	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections ner information refer to section 13.	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
 6.1.1. Emerge 6.1.2. Protect 6.2. Avoid res 6.3. Metho Other 6.4. For furth SECT 	For non-emergency personnel ency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections her information refer to section 13. ION 7: Handling and storage	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho Other 6.4. For furth SECT 7.1.	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections ner information refer to section 13.	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 		
6.1.1. Emerg 6.1.2. Protect 6.2. Avoid re 6.3. Metho Other 6.4. For furth SECT 7.1. Precau	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections her information refer to section 13. ION 7: Handling and storage Precautions for safe handling	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Int and cleaning up Mechanically recover the product. Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear 		
 6.1.1. Emerge 6.1.2. Protect 6.2. Avoid ree 6.3. Metho Other 6.4. For furth SECT 7.1. Precase Hygier 	For non-emergency personnel gency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections ner information refer to section 13. ION 7: Handling and storage Precautions for safe handling utions for safe handling ne measures	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Int and cleaning up Mechanically recover the product. Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 		
6.1.1. Emerg 6.1.2. Protec 6.2. Avoid re 6.3. Metho Other 6.4. For furth SECT 7.1. Precau Hygier 7.2.	For non-emergency personnel ency procedures For emergency responders stive equipment Environmental precautions elease to the environment. Methods and material for containme ds for cleaning up information Reference to other sections ner information refer to section 13. ION 7: Handling and storage Precautions for safe handling utions for safe handling	 Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Int and cleaning up Mechanically recover the product. Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 		

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	Control parameters
olye	ethylenimine, Linear, MW 2,500 (PEI 2500) (9002-98-6)
lo ad	dditional information available
zirio	idine, homopolymer, hydrochloride (26338-45-4)
lo ad	dditional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

: Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: off-white spongy solid amine.	
Color	: Colorless	
Odor	: Mixture contains one or more component(s) which have the following odour:	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: no data	
Freezing point	: Not applicable	
Boiling point	: no data	
Flash point	: no data	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: no data	
Relative vapor density at 20°C	: no data	
Relative density	: No data available	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	

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Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inform	nation
11.1. Information on toxicological effe	cts
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal) : Harmful in contact with skin.	
Acute toxicity (inhalation)	: Not classified
ATE US (dermal)	1100 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecolog	y - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No addit	ional information available	
12.3.	Bioaccumulative potential	

No additional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	

Aziridine, homopolymer, hydrochloride (26338-45-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
5,5	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

Aziridine, homopolymer, hydrochloride (26338-45-4)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

National regulations

Aziridine, homopolymer, hydrochloride (26338-45-4)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

SECTION 16: Other information

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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