

		OMPANY/UNDERTAKIN	G		
Product Identifiers					
Product Name: SDPR Recombinant Protein Antigen					
Catalog Number: NBI	P1-86610PEP				
-		edagainst			
-					
		Telephone <sup>.</sup>	1-888-506-		
company.	-	Fax:	1-303-730-1966		
	Centennial, CO 80112 USA	Internet:	www.novusbio.com		
		Email address:	novus@novusbio.com		
Canada <sup>.</sup>	461 North Service Rd West	Telephone:	1-855-668-8722		
oundu.	Unit B37	Fax:	902-827-6402		
	Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com		
United Kingdom	10 Porton Long	Talanhana	44 (0)1225 520440		
United Kingdom:			44 (0)1235 529449 44 (0)1235 522420		
			44 (0)1235 533420 info.emea@bio-techne.com		
Emergency Telephon	-				
Emergency Tel:		be: +44(0)1235-529449			
HAZARDS IDENTIFIC	ATION				
		fied			
Label Elements					
Labelling according to F	Regulation (EC) No 1272/2008 Not Regulated				
Other Hazards					
	contains no components considered to be either	persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.19		
This substance/mixture or higher.	contains no components considered to be either	persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1%		
This substance/mixture or higher.		persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1%		
This substance/mixture or higher.		persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1%		
This substance/mixture or higher. COMPOSITION/INFC Substances		persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.19		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures	PRMATION ON INGREDIENTS		and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.19		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures	PRMATION ON INGREDIENTS				
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not o	PRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES				
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR	PRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES				
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice	PRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES				
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled	CONTRACTION ON INGREDIENTS contain hazardous chemicals at concentrations of ES d measures now this safety data sheet.	1% or greater. This product	is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and	CORMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES d measures now this safety data sheet. d monitor breathing. If breathing becomes difficult	1% or greater. This product	is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta	CRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES d measures how this safety data sheet. d monitor breathing. If breathing becomes difficult, ct	1% or greater. This product	is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta Immediately wash skin In Case of Eye Contact	CRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES d measures how this safety data sheet. d monitor breathing. If breathing becomes difficult, ct with copious amounts of soap and water for at lea	1% or greater. This product give oxygen. If breathing s st 15 minutes. Remove co	t is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta Immediately wash skin In Case of Eye Contac Flush with copious and If Swallowed	EXAMPLE A CONTRACTION ON INGREDIENTS EXAMPLE A CONCENTRATION ON INGREDIENTS EXAMPLE A CONCENTRATION ON INGREDIENTS EXAMPLE A CONTRACT ON THE CONTRACT.	1% or greater. This product , give oxygen. If breathing s ist 15 minutes. Remove con	t is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first air General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta Immediately wash skin In Case of Eye Contac Flush with copious amount If Swallowed Rinse mouth with water	EXAMPLE OF A LEASE OF	1% or greater. This product , give oxygen. If breathing s ist 15 minutes. Remove con	t is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta Immediately wash skin In Case of Eye Contac Flush with copious amo If Swallowed Rinse mouth with water Most important symptometers	PRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of ES d measures now this safety data sheet. d monitor breathing. If breathing becomes difficult, ct with copious amounts of soap and water for at leas t ounts of water for at least 15 minutes. Consult a do c. Do not induce vomiting unless directed to do so toms and effects, both acute and delayed	1% or greater. This product , give oxygen. If breathing s ast 15 minutes. Remove con octor. by medical personnel. Nev	t is not known to contain carcinogens at concentrations of 0.1% or greater.		
This substance/mixture or higher. COMPOSITION/INFC Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta Immediately wash skin In Case of Eye Contao Flush with copious amo If Swallowed Rinse mouth with water Most important sympi To the best of our know	EXAMPLE OF A LEASE OF	1% or greater. This product give oxygen. If breathing s ast 15 minutes. Remove con octor. by medical personnel. Nev operties have not been tho	t is not known to contain carcinogens at concentrations of 0.1% or greater.		
	Catalog Number: NBH Relevant identified us Identified Uses: Details of the supplied Company: Canada: United Kingdom: Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone Emergency Telephone	Catalog Number: NBP1-86610PEP         Relevant identified uses of the substance or mixture and uses adviss         Identified Uses:       For research use only.         Details of the supplier of the safety data sheet         Company:       Novus Biologicals a Bio-Techne Brand         10771 E Easter Ave         Centennial, CO 80112 USA         Canada:       461 North Service Rd West         Unit B37         Oakville, ON L6M 2V5         United Kingdom:       19 Barton Lane         Abingdon, OX14 3NB         Emergency Telephone Number         Emergency Tel:       US: 303-730-1950 or 888-506-6887 / Europ         HAZARDS IDENTIFICATION         Classification of the substance or mixture         Classification according to the Regulation (EC) No 1272/2008 Not Classification	Catalog Number: NBP1-86610PEP         Relevant identified uses of the substance or mixture and uses advised against         Identified Uses:       For research use only.         Details of the supplier of the substance or mixture and uses advised against         Company:       Novus Biologicals a Bio-Techne Brand       Telephone:         10771 E Easter Ave       Fax:         Centennial, CO 80112 USA       Internet:         Email address:       Email address:         Canada:       461 North Service Rd West       Telephone:         Unit B37       Fax:         Oakville, ON L6M 2V5       Email address:         United Kingdom:       19 Barton Lane       Fax:         Abingdon Science Park       Fax:       Email address:         Emergency Telephone       US: 303-730-1950 or 888-506-6887 / Europe: +44(0)1235-529449         HAZARDS IDENTIFICATIFIC       Iterset is the regulation (EC) No 1272/2008 Not Classified         Label Elements       Label Elements       Iterset is the regulation (EC) No 1272/2008 Not Classified		

# 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

## 5.3 Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## **Appropriate Engineering Controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### **Personal Protective Equipment**

Eye / Face Protection

#### Use appropriate safety glasses.

## **Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. **Body Protection** 

Wear appropriate protective clothing.

#### **Respiratory Protection**

For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

information on bablo physical and onorme	ai pi opoi lico		
Appearance	clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
pH	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

9.2 Other safety information

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- No data available.
- 10.2 Chemical stability
- No data available.
- 10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid

No data available.

# 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx). In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute Toxicity

Chamical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat)
Urea	8.471 mg/kg (Rat)	>2000 mg/kg (Rat)	4h, > 0,83mg/l (Rat)
Disodium hydrogenorthophosphate	> 2000mg/kg (Rat)	>2000 mg/kg (Rat)	4h, > 0,83mg/l (Rat)
Sodium chloride	> 2000mg/kg (Rat)	>10000 mg/kg (Kanin)	1h, > 42 mg/l (Rat)

#### Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

Respiratory or Skin Sensitization

Classified based on available data

# Germ Cell Mutagenicity

Classified based on available data

# Carcinogenicity

Classified based on available data

**Reproductive Toxicity** 

Classified based on available data

Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

## Symptoms / Routes of Exposure

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion:	There may be irritation of the throat.
Skin:	There may be mild irritation at the site of contact.
Eyes:	There may be irritation and redness.
Delayed / Immediate Effects:	No known symptoms.

#### Additional Information

Classified based on available data

## 12. ECOLOGICAL INFORMATION

Toxicity to fish flow-through test LC50 - Lepomis macrochirus (Bluegill) - 5.840 mg/l - 96 h (Sodium chloride) Remarks: (ECHA) No data available semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 203) semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (Urea) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 4.136 mg/l - 48 h (Sodium chloride) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline

Toxicity to algae static test EC50 - Nitzschia sp. - 2.430 mg/l - 120 h (Sodium chloride) (OECD Test Guideline 201) static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 201) static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 48 h (Urea) (OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 209) static test EC50 - activated sludge - > 1.000 mg/l - 3 h (Urea) (OECD Test Guideline 209)

12.2 Persistence and degradability

No data available.

- 12.3 Bioaccumulative potential
- No data available.
- 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available Discharge into the environment must be avoided. Discharge into the environment must be avoided. No data available Discharge into the environment must be avoided. Depending on the concentration, phosphates may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated Packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

## 14. TRANSPORT INFORMATION

Not regulated for Land Transport (ADR/RID), for Sea Transport (IMDG) or for Air Transport (IATA).

#### 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

#### 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

## Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

TSCA (Toxic Substances Control Act) : Not applicable.

SARA 313 : Not applicable.

SARA 311/312 : Not applicable.

CERCLA Reportable Quantity : Not applicable.

California Proposition 65 : Not applicable.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### 16. OTHER INFORMATION

## Further Information

Copyright © 2020 Novus Biologicals a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet