

Product Identifiers			G				
	Product Identifiers						
Product Name: Exoso	duct Name: Exosome Component 9 Recombinant Protein Antigen						
-		sed against					
-							
	-	Telephone <sup>.</sup>	1-888-506-				
company.	10771 E Easter Ave	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:	19 Barton Lane	Telephone:	44 (0)1235 529449				
	Abingdon Science Park	Fax:	44 (0)1235 533420				
	Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com				
Emergency Telephone	Number						
Emergency Tel:	US: 303-730-1950 or 888-506-6887 / Europ	be: +44(0)1235-529449					
HAZARDS IDENTIFIC	ATION						
Classification of the substance or mixture							
-	to the Regulation (EC) No 1272/2008 Not Classi	fied					
	Regulation (EC) No 1272/2008 Not Regulated						
	contains no components considered to be either	persistent, bioaccumulative	and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1				
COMPOSITION/INFO	RMATION ON INGREDIENTS						
Substances							
Not applicable.							
Mixtures							
This product does not c	ontain hazardous chemicals at concentrations of	1% or greater. This product	is not known to contain carcinogens at concentrations of 0.1% or greater.				
FIRST AID MEASURE	ES						
Description of first aid	l measures						
General Advice							
Consult a doctor and sh	low this safety data sheet.						
If Inhaled							
		, give oxygen. If breathing s	stops, give artificial respiration. Consult a doctor.				
		ast 15 minutes. Remove cor	ntaminated clothing and shoes and wash before reuse. Consult a doctor.				
In Case of Eye Contac	t						
Flush with copious amo	unts of water for at least 15 minutes. Consult a do	octor.					
If Swallowed	Do not induce you the context discussed to the	hy modical account of hi	or give emitting by mouth to an improve intervention of the state				
Kinse mouth with water	. Do not induce vomiting unless directed to do so	by medical personnel. Neve	er give anything by mouth to an unconscious person. Consult a doctor.				
Most important ourset	ome and offecte both soute and delayed						
	oms and effects, both acute and delayed	operties have not been the	roughly investigated				
To the best of our know	oms and effects, both acute and delayed ledge, the chemical, physical and toxicological pr te medical attention and special treatment nee		roughly investigated.				
	Relevant identified us Identified Uses: Details of the supplier Company: Canada: United Kingdom: Emergency Telephone Emergency Telephone Classification of the s Classification according Label Elements Labelling according to F Other Hazards This substance/mixture or higher. COMPOSITION/INFO Substances Not applicable. Mixtures This product does not contained This product does not contained General Advice Consult a doctor and shift Inhaled Remove to fresh air and In Case of Skin Contained Immediately wash skin to In Case of Skin Contained Flush with copious amo	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 Science Park Abingdon, OX14 3NB   Emergency Telephone Number   Emergency Telephone Number   Classification of the substance or mixture Classification according to the Regulation (EC) No 1272/2008 Not Classification according to Regulation (EC) No 1272/2008 Not Classification according to Regulation (EC) No 1272/2008 Not Regulated   Other Hazards   This substance/mixture contains no components considered to be either or higher.   Substances   Not applicable.   Mixtures   This product does not contain hazardous chemicals at concentrations of FIRST AID MEASURES   Description of first aid measures General Advice Consult a doctor and show this safety data sheet.   If Inhaled Remove to fresh air and monitor breathing. If breathing becomes difficult In Case of Skin Contact Immediately wash skin with copious amounts of soap and water for at least In Case of Eye Contact Flush with copious amounts of water for at least 15 minutes. Consult ad one prove to fresh air and monitor breathing. If breathing becomes difficult	Relevant identified uses of the substance or mixture and uses advised against   Identified Uses: For research use only:   Details of the supplier of the safety data sheet Telephone:   Company: Novus Biologicals a Bio-Techne Brand Telephone:   10771 E Easter Ave Fax: Email address:   Canada: 461 North Service Rd West Telephone:   Unit B37 Fax: Email address:   Oakville, ON LGM 2V5 Email address: Email address:   Unit B37 Fax: Abingdon Science Park Fax:   Abingdon Science Park Fax: Email address:   Emergency Telephone Number US: 303-730-1950 or 888-506-6887 / Europe: +44(0)1235-529449 HAZARDS IDENTIFICATION   Klassification of the substance or mixture Classification of the substance or mixture Classification of the substance or mixture   Classification of the substance or mixture Classification of the substance or mixture Emergency Tel: Unit Size Size Size Size Size Size Size Size				

# 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

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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

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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