

Safety Data Sheet

Version 3.0 SDS Revision Date 9/1/2020

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1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifiers

Product Name: WFDC8 Recombinant Protein Antigen

Catalog Number: NBP2-62608 PEP

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

Identified Uses: For research use only.

1.3 Details of the supplier of the safety data sheet

Company:	Novus Biologicals a Bio-Techne Brand 10771 E Easter Ave Centennial, CO 80112 USA	Telephone:	1-888-506-
		Fax:	1-303-730-1966
		Internet:	www.novusbio.com
		Email address:	novus@novusbio.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-technique.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-technique.com

1.4 Emergency Telephone Number

Emergency Tel: US: 303-730-1950 or 888-506-6887 / Europe: +44(0)1235-529449

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No 1272/2008 Not Classified

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 Not Regulated

2.3 Other Hazards

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

4. FIRST AID MEASURES

4.1 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, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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		
	Appearance	clear liquid	Vapor PressureNo data available.
	Odor	Little to none	Vapor DensityNo data available.
	Odor Threshold	No data available.	Relative DensityNo data available.
	pH	No data available.	Solubility(ies)No data available.
	Melting / Freezing Point	No data available.	Partition CoefficientNo data available.
	Boiling Point / Range	No data available.	Autoignition TemperatureNo data available.
	Flash Point	No data available.	Decomposition TemperatureNo data available.
	Evaporation Rate	No data available.	ViscosityNo data available.
	Flammability (Solid, Liquid, Gas)	No data available.	Explosive PropertiesNo data available.
	Upper / Lower Flammability Limits	No data available.	Oxidizing PropertiesNo data available.
9.2	Other safety information		

No data available.

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

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

12.1 Toxicity

Toxicity to fish flow-through test LC50 - *Lepomis macrochirus* (Bluegill) - 5.840 mg/l
Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (Disodium hydrogenorthophosphate
(rainbow trout) - > 100 mg/l - 96 h (Urea) (OECD Test Guideline 203)

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

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

Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (Disodium
> 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.

1 2 . 5 R e s u l t s o f P B T a n d v P v B a s s e s s m e n t

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.

1 2 . 6 O t h e r a d v e r s e e f f e c t s

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.

1 3 . D I S P O S A L C O N S I D E R A T I O N S

1 3 . 1 W a s t e t r e a t m e n t m e t h o d s

P r o d u c t

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

C o n t a m i n a t e d P a c k a g i n g

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

1 4 . T R A N S P O R T I N F O R M A T I O N

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

1 4 . 1 U N - N u m b e r

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

1 4 . 2 U N p r o p e r s h i p p i n g n a m e

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

1 4 . 3 T r a n s p o r t h a z a r d c l a s s (e s)

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

1 4 . 4 P a c k a g i n g g r o u p

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

1 4 . 5 E n v i r o n m e n t a l h a z a r d s

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

1 4 . 6 S p e c i a l p r e c a u t i o n s f o r u s e r s

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

A d d i t i o n a l T r a n s p o r t I n f o r m a t i o n

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

1 5 . R E G U L A T O R Y I N F O R M A T I O N

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

1 5 . 1 S a f e t y , h e a l t h a n d e n v i r o n m e n t a l r e g u l a t i o n s / l e g i s l a t i o n s p e c i f i c f o r t h e s u b s t a n c e o r

T S C A (T o x i c S u b s t a n c e C o n t r o l A c t) :

S A R A 3 N o t a p p l i c a b l e .

S A R A 3 1 N o t a p p l i c a b l e .

C E R C L A R e p o r t a b l e t i t l e :

C a l i f o r n i a P r o p o s i t i o n 6 5 :

1 5 . 2 C h e m i c a l s a f e t y a s s e s s m e n t

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

1 6 . O T H E R I N F O R M A T I O N

F u r t h e r I n f o r m a t i o n

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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