

# Safety Data Sheet

## CPN™ 420 & CPN™ 420 Streptavidin Conjugate

Version 1.1 Revision Date 01.11.2019  
According to Regulation (EC) No. 453/2010

### SECTION 1: Identification of the Substance / Mixture & of the Company

#### Identification of the substance or mixture

Product Code: CPN4200B / CPN4200S  
Product Name: CPN™ 420 / CPN™ 420 Streptavidin Conjugate

#### Company/undertaking identification

Stream Bio Ltd, NETPark  
Thomas Wright Way,  
Sedgefield, Co Durham, UK  
TS21 3FG

24hr Emergency response +44 (0) 870 8200418  
(CHEMTREC). For research use only. Not intended for  
human or animal diagnostic or therapeutic uses

### SECTION 2: Hazards Identification

In accordance with local and national regulations

#### GHS – Classification

Non hazardous

#### Signal word

Non hazardous

#### European Union

Non hazardous

#### Health hazards

Non hazardous

#### Physical hazards

Non hazardous

#### EU specific hazard statements

R-phrases)

#### Principle routes of exposure / potential health effects

Eyes  
Skin  
Inhalation  
Ingestion

May cause eye irritation in susceptible persons  
May cause skin irritation in susceptible persons  
May be harmful by inhalation  
May be harmful if swallowed

#### Specific effects

Carcinogenic effects  
Mutagenic effects  
Reproductive toxicity  
Sensitisation  
Target organ effects

Substance not yet tested  
Substance not yet tested  
Substance not yet tested  
Substance not yet tested  
No information

### SECTION 3: Composition / Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Chemical Name	CAS-No	EINECS-No	Weight percent
Conjugated polymer	None	Not listed	Unknown
Polystyrene maleic acid anhydride	None	Not listed	Unknown
Iron oxide	None	Not listed	<10 %
Strepatavidin	None	Not Listed	<5%

## SECTION 4: First Aid Measures

Skin contact	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a doctor.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a doctor. Do not induce vomiting without medical advice.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor. If not breathing, give artificial respiration.
Notes to Physician	Treat symptomatically.

## SECTION 5: Firefighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus & protective suit.

## SECTION 6: Accidental Release Measures

Personal precautions	Use personal protection equipment
Methods for cleaning up	Soak up with inert absorbent material
Environmental precautions	Prevent further leakage or spillage if safe to do so. See section 12 for more information

## SECTION 7: Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage	Keep in a dry, cool and well-ventilated place.

## SECTION 8: Exposure Controls / Personal Protection

### Exposure limits

At this time, the limited evidence available suggests caution when potential exposures to nanoparticles may occur. Due to the limited information about health risks from nanomaterials, it is prudent to take steps for minimizing worker exposures. Research is still needed to understand the impact of nanotechnology on health, and to determine appropriate exposure monitoring and control strategies.

Contains no substances with occupational exposure limit values.

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### Personal protective equipment

Personal protective equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	Impervious gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains

## SECTION 9: Physical and Chemical Properties

### General information

Form	Suspension
Appearance	Coloured liquid
Odor	No information available
Boiling point / boiling range	No data available
Melting point / melting range	No data available
Flash point	No data available
Autoignition temperature	No data available
Oxidising properties	No data available
Water solubility	Soluble

## SECTION 10: Stability and Reactivity

Chemical stability	Stable under normal conditions
Reactivity	None known
Materials to avoid	No dangerous reaction known under conditions of normal use
Hazardous decomposition products	None under normal use condition
Polymerisation	Hazardous polymerisation does not occur
Conditions to avoid	No information available

## SECTION 11: Toxicological Information

### Acute toxicity

At this time, the limited evidence available suggests caution when potential exposures to nanoparticles may occur. Due to the limited information about health risks from nanomaterials, it is prudent to take steps for minimizing worker exposures. Occupational health risks associated with manufacturing and using nanomaterials are not yet clearly understood. Studies have indicated that low solubility nanoparticles are more toxic than larger particles on a mass for mass basis. There are strong indications that particle surface area and surface chemistry are responsible for observed responses in cell cultures and animals. There are indications that nanoparticles can penetrate through the skin or move from the respiratory system to other organs.

### Principle routes of exposure / potential health effects

Eyes	May cause eye irritation with susceptible persons
Skin	May cause skin irritation in susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed
Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitisation	None
Target organ effects	No known effects under normal use conditions

## SECTION 12: Ecological Information

Ecotoxicity	No information available
Mobility	No information available
Biodegradation	Inherently biodegradable
Bioaccumulation	Material does not bioaccumulate

## SECTION 13: Disposal Considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport Information

### IATA

Proper shipping name	Not classified as dangerous within the meaning of transport regulations
Hazard class	None
Subsidiary class	None
Packing group	None
UN-N	None
Environmental hazards	None
Special precautions for user	None

## SECTION 15: Regulatory Information

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

Substances of very high concern	None
Restricted substances under EC 1907/2006, Annex XVII	None
Substances listed under Annex I of Regulation (EC) No 689/200	None
Restricted substances under Annex V of Regulation (EC) No 689/2008	None
Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	None
German Water hazard classes (Wassergefährdungsklassen)	Not classified
Other international inventories	No information available
Chemical safety assessment	No chemical safety assessment has been carried out

## SECTION 16: Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

### References

- National Institute for Occupational Safety and Health (NIOSH), U.S., 2010:  
<http://www.cdc.gov/niosh/topics/nanotech/>
- National Institute for Occupational Safety and Health (NIOSH), U.S., 2009:  
<http://www.cdc.gov/niosh/docs/2009-125/pdfs/2009-125.pdf>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

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