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Safety Data Sheet

CPN[™] 660 (Carboxyl, Maleimide, Alkyne, Streptavidin)

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

Identification of the substance or mixture

Product Code: CPN6600B / CPN6600M / CPN6600A / CPN6600S Product Name: CPN[™] 660 / Carboxyl / Maleimide / Alkyne / Streptavidin

Company/undertaking identification Stream Bio Ltd, Alderley Park Nether Alderley, Cheshire, SK10 4TG, UK

SECTION 2: Hazards Identification

In accordance with local and national regulations

GHS - Classification

Non hazardous

Signal word

Non hazardous

European Union

Non hazardous

Eves

Skin

Inhalation

Ingestion

Specific effects Carcinogenic effects

Mutagenic effects

Sensitisation Target organ effects

Reproductive toxicity

Non hazardous

Non hazardous

EU specific hazard statements

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

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

SECTION 3: Composition / Information on Ingredients

Principle routes of exposure / potential health effects

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	>50 %
Polystyrene maleic acid anhydride	9011-13-6	100.211.126	>30 %
Iron oxide nanoparticles	None	Not listed	<10 %
Carboxyl polyethylene glycol (for CPN6600B)	196936-04-6	Not Listed	<5 %
Strepatavidin polyethylene glycol (for CPN6600S)	None	Not Listed	<5%
Maleimide polyethylene glycol (for CPN6600M)		Not Listed	<5%
Alkyne polyethylene glycol (for CPN6600A)		Not Listed	<5%

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

Health hazards

Physical hazards

R-phrase(s)

SECTION 4: First Aid Measures

Skin contact Eye contact

Ingestion

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

SECTION 5: Firefighting Measures

Suitable extinguishing media Special protective equipment for firefighters Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus & protective suit.

SECTION 6: Accidental Release Measures

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

SECTION 7: Handling and Storage

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

SECTION 9: Physical and Chemical Properties

General information

Form Appearance Odor Boiling point / boiling range Melting point / melting range Flash point Autoignition temperature Oxidising properties Water solubility

Suspension Coloured liquid No information available No data available Soluble

SECTION 10: Stability and Reactivity

Chemical stability Reactivity Materials to avoid Hazardous decomposition products Polymerisation Conditions to avoid

Stable under normal conditions None known No dangerous reaction known under conditions of normal use None under normal use condition Hazardous polymerisation does not occur 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

Eves May cause eye irritation with susceptible persons Skin May cause skin irritation in susceptible persons Inhalation Ingestion Carcinogenic effects None Mutagenic effects None Reproductive toxicity None Sensitisation None Target organ effects

May be harmful by inhalation May be harmful if swallowed No known effects under normal use conditions

SECTION 12: Ecological Information

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

SECTION 13: Disposal Considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport Information

IATAProper shipping nameNot classified as dangerous within the meaning of transport regulationsHazard classNoneSubsidiary classNonePacking groupNoneUN-NNoneEnvironmental hazardsNoneSpecial precautions for userNone

SECTION 15: Regulatory Information

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

Substances of very high concern Restricted substances under EC 1907/2006, Annex XVII Substances listed under Annex I of Regulation (EC) No 689/200	None None 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"

END OF SAFETY DATA SHEET