Name, address, and telephone number of

the manufacturer:

Refer to supplier

# SAFETY DATA SHEET

#### SECTION 1. IDENTIFICATION

Product identifier used on the label

Esperoct® [antihemophilic factor (recombinant), glycopegylated-exei]

Other means of identification: None reported.

Recommended use of the chemical and restrictions on use

: Pharmaceutical

Restriction on use: None known

Chemical family : Pure substance

Name, address, and telephone number

Novo Nordisk Inc. 800 Scudders Mill Road Plainsboro, NJ, USA

of the supplier:

08536

Supplier's Telephone # : 1-800-727-6500 **24 Hr. Emergency Tel #** : 1-800-727-6500

## SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

# Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

Hazard statement(s)

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

Precautionary statement(s)

None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

#### Other hazards

Other hazards which do not result in classification:

Contact with eyes may cause irritation. Prolonged or repeated contact with skin may cause irritation in some cases.

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. Your needs may vary depending upon the potential for exposure in your workplace. The precautionary statements, warnings and hazards included herein may not apply in all cases, such as when the product or device is in its final form and being used to treat the approved medical condition(s) while under the care of a licensed medical professional and in accordance with the FDA-approved Prescribing Information. Refer to FDA-approved Prescribing Information for final marketed products containing Lyophilized N8-GP and excipients with regard to special storage, handling and administration requirements in the clinical setting.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Lyophilized N8-GP and excipients	Not available.	N/Av	100.00

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Ingestion : Rinse mouth thoroughly and then drink plenty of water. Do NOT induce vomiting. Seek

medical advice in case of persistent discomfort.

Inhalation : Seek fresh air. Seek medical advice in case of persistent discomfort.

Skin contact: Remove contaminated clothes immediately. Wash skin with soap and water. Seek

medical advice in case of persistent discomfort.

Eye contact : Flush immediately with water (preferably using eye wash equipment) for at least 5

minutes. Open eye wide. Remove any contact lenses. Seek medical advice if irritation

continues.

## Most important symptoms and effects, both acute and delayed

: None known or reported by the manufacturer.

## Indication of any immediate medical attention and special treatment needed

: None reported by the manufacturer.

#### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

 Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

: None known or reported by the manufacturer.

#### Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

## **Hazardous combustion products**

: Carbon oxides and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: None known or reported by the manufacturer.

Special fire-fighting procedures

: Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: None known or reported by the manufacturer.

**Environmental precautions**: None known or reported by the manufacturer.

#### Methods and material for containment and cleaning up

: Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

# Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None reportable.

#### SECTION 7. HANDLING AND STORAGE

## Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

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#### SAFETY DATA SHEET

Store in a cool, dry, well-ventilated area. Containers that have been opened must Conditions for safe storage :

be carefully resealed and kept upright to prevent leakage. Store in original

Inspect periodically for damage or leaks. Store between: 2 and 8 °C (

36 and 46°F)

Strong oxidizing agents Strong reducing agents strong acids and bases. Incompatible materials

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGII	ACGIH TLV		A PEL
	<u>TWA</u>	STEL	<u>PEL</u>	STEL
Lyophilized N8-GP and excipients	N/Av	N/Av	N/Av	N/Av

# **Exposure controls**

### Ventilation and engineering measures

: Provide sufficient mechanical ventilation (general and/or local exhaust) to keep the airborn concentrations of vapors, mists, aerosols or dust below their respective

occupational exposure limits

: Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH Respiratory protection

approved dust respirator if dust levels exceed exposure limits. Seek advice from

respiratory protection specialists.

Wear protective gloves. The suitability for a specific workplace should be discussed Skin protection

with the producers of the protective gloves.

Wear as appropriate: Safety glasses with side shields Eye / face protection

Other protective equipment: Wear appropriate protective clothing to prevent skin contact, such as coveralls or long

sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area.

Other equipment may be required depending on workplace standards.

# General hygiene considerations

: Avoid breathing dust. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : granular

Odour No data available. Odour threshold : No data available. Ha : No data available. Melting Point/Freezing point: No data available.

Initial boiling point and boiling range

: No data available. No data available. : No data available. Evaporation rate (BuAe = 1) : No data available.

Flammability (solid, gas) The product is not flammable.

Lower flammable limit (% by vol.)

Flash point

Flashpoint (Method)

No data available.

Upper flammable limit (% by vol.)

: No data available.

Oxidizing properties : None known. **Explosive properties** : Not explosive Vapour pressure : No data available. SDS Revision Date (mm/dd/yyyy): 10/29/2021 Page 4 of 8

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Vapour density : No data available.

Relative density / Specific gravity

: No data available.

Solubility in water : Soluble

Other solubility(ies) : No data available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: No data available.

Auto-ignition temperature : No data available.

Decomposition temperature : No data available.

Viscosity : No data available.

Volatiles (% by weight) : No data available.

Volatile organic Compounds (VOC's)

: No data available.

Absolute pressure of container

: No data available.

Flame projection length : No data available.

Other physical/chemical comments

: No additional information.

#### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Frost

Incompatible materials : Avoid contact with incompatible materials. Incompatible materials (see Section 7).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### <u>Information on likely routes of exposure:</u>

 $\begin{tabular}{lll} \textbf{Routes of entry inhalation} & : & YES \\ \textbf{Routes of entry skin \& eye} & : & YES \\ \textbf{Routes of entry Ingestion} & : & YES \\ \textbf{Routes of exposure skin absorption} \\ \end{tabular}$ 

: NO

## **Potential Health Effects:**

# Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause mild transient irritation.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin : May cause mild skin irritation on prolonged contact.

Sign and symptoms eyes : Direct eye contact may cause slight redness.

**Potential Chronic Health Effects** 

: Prolonged exposure can cause redness, swelling, itching, cracking of the skin,

dermatitis and sensitization.

**Mutagenicity**: Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

## Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: The substance or mixture is not classified as specific target organ toxicant, single

exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

#### Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: No information available.

Toxicological data : There is no available dat

: There is no available data for the product itself, only for the ingredients. See below for

individual ingredient acute toxicity data.

	LCso(4hr)	LDs	0	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Lyophilized N8-GP and excipients	N/Av	N/Av	N/Av	

### Other important toxicological hazards

: See Section 3 for additional information.

# SECTION 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

: Discharge into the environment must be avoided. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

# Ecotoxicity data:

Ingradianta	040#	Toxicity to Fish				
<u>Ingredients</u>	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Lyophilized N8-GP and excipients	N/Av	N/Av	N/Av	None.		

<u>Ingredients</u>	CAS#	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Lyophilized N8-GP and excipients	N/Av	N/Av	N/Av	None.		

<u>Ingredients</u>	CAS#	CAS # Toxicity to Algae					
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
Lyophilized N8-GP and excipients	N/Av	N/Av	N/Av	None.			

## Persistence and degradability

: No data is available on the product itself.

**Bioaccumulation potential**: No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Lyophilized N8-GP and excipients (CAS N/Av)	N/Av	N/Av

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers may

contain hazardous residues.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the

criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and

disposal method.

# SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	$\bigotimes$
49CFR/DOT Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	$\bigotimes$
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	$\bigotimes$
IMDG Additional information	None.				

Special precautions for user :

Appropriate advice on safety must accompany the package.

**Environmental hazards** 

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

#### SECTION 15 - REGULATORY INFORMATION

# **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients CAS #		TSCA CERCLA Reportable		SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	CAS#	Inventory	Quantity(RQ) (40 CFR 117.302):	Quantity(RQ) (40 Hazardous Substance, 40		de minimus Concentration	
Lyophilized N8-GP and excipients	N/Av	NL	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

# **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Lyophilized N8-GP and excipients	N/Av	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

## **Canadian Information:**

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

## **International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Lyophilized N8-GP and excipients	N/Av		N/Av	N/Av	N/Av	N/Av	N/Av	N/Av

# **SECTION 16. OTHER INFORMATION**

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CNS: Central Nervous System DOT: Department of Transportation EPA: Environmental Protection Agency

IARC: International Agency for Research on Cancer IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

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#### SAFETY DATA SHEET

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices

2. ECHA - European Chemical Agency

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases

4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists6. California Proposition 65 List

7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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: 29/10/2021

Revision No. : 2

Revision Information : (M)SDS sections updated :2. HAZARDS IDENTIFICATION

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

# Prepared for:

Novo Nordisk

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