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# SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

FIASP® (insulin aspart injection) (Vial and Penfill (100U/ml)

the manufacturer:

Refer to supplier

Name, address, and telephone number of

Other means of identification: Not available.

Recommended use of the chemical and restrictions on use

: Drug product

Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number

Novo Nordisk Inc. 800 Scudders Mill Road

of the supplier:

Plainsboro, NJ, USA

08536

Supplier's Telephone # : 1-800-727-6500

24 Hr. Emergency Tel # : No information available.

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Cloudy, aqueous suspension with a smell of cresol./phenol.

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).

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 with regard to special storage, handling and administration requirements in the clinical setting.

#### Label elements

Hazard pictogram(s)

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

Signal Word

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

#### Other hazards

Other hazards which do not result in classification:

This is a drug product and should be used in accordance with the instructions for use. The product is tested according to applicable regulations for pharmaceutical products. The product poses no unacceptable toxicological risks when used as intended.

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### SAFETY DATA SHEET

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

#### Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Phenol	Hydroxybenzene Phenyl Alcohol	108-95-2	0.1 - 1.0
m-Cresol	Cresol	108-39-4	0.1 - 1.0

Solution for injection containing Insulin Aspart (recomb. B28 Asp. Human insulin)

#### SECTION 4. FIRST-AID MEASURES

### Description of first aid measures

ingestion : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two

glasses of water to drink. Never give anything by mouth to an unconscious person.

Seek medical attention if discomfort occurs.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing has stopped, give artificial respiration. Obtain medical

attention if symptoms develop and persist.

Skin contact: Wash with water and soap as a precaution. If irritation or symptoms develop, seek

medical attention.

Eye contact: If in eyes, rinse with water for 15 minutes. Remove contact lenses if present and easy

to do. Continue rinsing. If irritation persists, seek prompt medical attention.

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

: May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

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

: Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# **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**

: irritating fumes and smoke

### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up. SDS Preparation Date (mm/dd/yyyy): 12/02/2020 Page 3 of 9

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**Environmental precautions**: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. **Methods and material for containment and cleaning up** 

: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

#### 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): See section 15.

### SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

: Avoid breathing mist, vapors or spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep refridgerated until use.

Maximum storage period:24 months Storage temperature: 2°C to 8°C

**Conditions for safe storage** 

Keep only in original packaging. Before use: store in a refrigerator (2°C - 8°C). Do not store them in or too near the freezer section or cooling element. During use: do not refrigerate. Do not store above 25°C. Keep the vial in the outer carton in order to protect from light. Protect from excessive heat and sunlight.

Incompatible materials : Strong acids, bases and oxidizing or reducing agents.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TI	ACGIH TLV OSHA PEL			
	<u>TWA</u>	STEL	PEL	STEL	
Phenol	5 ppm (skin)	N/Av	5 ppm (19 mg/m³) (skin)	N/Av	
m-Cresol	20 mg/m³ (inhalable fraction and vapor) (skin)	N/Av	5 ppm (listed under Cresol, all isomers) (skin)	N/Av	

#### **Exposure controls**

# Ventilation and engineering measures

: Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust and/or fumes). Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection : Other protective equipment :

: Wear eye/face protection. Wear safety glasses with side shields ( or goggles).: Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an

impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

### General hygiene considerations

: Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing must not be allowed out of the workplace.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Cloudy, aqueous suspension with a smell of cresol/phenol

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Odour : Cresol
Odour threshold : Not available.

**pH** : 7.1

Melting Point/Freezing point: Not available.

Initial boiling point and boiling range

: Not available.

Flash point : Not available.
Flashpoint (Method) : Not available.
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not applicable.

Upper flammable limit (% by vol.)

Oxidizing properties

**Explosive properties** 

Vapour pressure Vapour density Not applicableNot applicableNot explosiveNot availableNot available

Relative density / Specific gravity

: Not available.

Solubility in water : Soluble
Other solubility(ies) : Not available.

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

: Not available.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not available.

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: Chemical formula: C257H383N65O77S6

Molecular weight: 5808 Dalton

# SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: This product is not reactive.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions

: Under normal conditions of handling and storage, hazardous reactions will not occur.

Conditions to avoid : Avoid contact with incompatible materials. Do not freeze.
 Incompatible materials : Strong acids, bases and oxidizing or reducing agents.

**Hazardous decomposition products** 

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

### SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES

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# Routes of exposure skin absorption

: 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
 Direct skin contact may cause slight or mild, transient irritation.
 Sign and symptoms eyes
 Direct eye contact may cause slight or mild, transient irritation.

**Potential Chronic Health Effects** 

: Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

**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 cause reproductive effects.

Sensitization to material : May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive

individuals.

Specific target organ effects: According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200)

(Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through

single or repeated exposures.

Medical conditions aggravated by overexposure

None known. Not available.

Synergistic materials

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

individual ingredient acute toxicity data.

	LC50(4hr)	LD50			
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)		
Phenol	> 1.8 mg/L (aerosol)	320 mg/kg (rat) The estimated human lethal dose is: 140 - 290 mg/kg	660 - 707 mg/kg		
m-Cresol	58 mg/m³	242 mg/kg	620 mg/kg		

#### Other important toxicological hazards

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Not classified for hazards to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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### Ecotoxicity data:

<u>Ingredients</u>	040#	Toxicity to Fish				
	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Phenol	108-95-2	5.02 mg/L (Rainbow trout)	N/Av	None.		
m-Cresol	108-39-4	96 Hr LC50 Pimephales promelas: 55.9 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.9 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: 23.12 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 15.9 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 - 13.6 mg/L	N/Av			

<u>Ingredients</u>	CAS#	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Phenol	108-95-2	3.1 mg/L Ceriodaphnia (water flea)	N/Av	None.		
m-Cresol	108-39-4	18.8 mg/L	N/Av			

<u>Ingredients</u>	CAS#	То	xicity to Algae	10		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Phenol	108-95-2	61.1 mg/L/96hr (Green algae)	N/Av	None.		
m-Cresol	108-39-4	N/Av	N/Av			

# 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)
Phenol (CAS 108-95-2)	1.47	no significant bioaccumulatio
m-Cresol (CAS 108-39-4)	1.96	20 species: fish

Mobility in soil

: No data is available on the product itself.

#### Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** 

: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Methods of Disposal** 

 Dispose in accordance with all applicable federal, state, provincial and local regulations.

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# **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. For disposal of unused or waste material, check with local, state and

federal environmental agencies.

SAFETY DATA SHEET

# **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	$\otimes$
49CFR/DOT Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	$\otimes$
IMDG Additional information	None.	!			
ICAO/IATA	None.	Not regulated.	not regulated	none	$\otimes$
ICAO/IATA Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	$\otimes$
TDG Additional nformation	None.		!		

**Special precautions for user**: None known or reported by the manufacturer.

**Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance

according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

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

: 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		
	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Phenol	108-95-2	Yes	1000 lb/ 454 kg	500 lb lower TPQ; 10000 lb upper TPQ	Yes	1%
m-Cresol	108-39-4	Yes	100 lb/ 45.4 kg	N/Áv	Yes	0.1%

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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### **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					
	UAO #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Phenol	108-95-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
m-Cresol	108-39-4	No	N/Ap	Yes	Yes	No	Yes	Yes	No

### **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:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Phenol	108-95-2	203-632-7	Present	Present	(3)-481	KE-28209	Present	HSR006982
m-Cresol	108-39-4	203-577-9	Present	Present	(4)-57; (3)-499	KE-24793	Present	HSR003581

### 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 CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration

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

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

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

Biological Exposure Indices for

2. ECHA - European Chemical Agency

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

(Chempendium, HSDB and RTECs). 4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists

6. California Proposition 65 List

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

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: 12/02/2020

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

### Prepared for:

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#### Prepared by:

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