



Insulin Human AF	Page:	1/9
2019-10-29	Print date:	2022-12-06
	SDS-ID:	GB-EN/7.0
		2019-10-29 Print date:

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

	-
1.1. Product identifier	
Product name:	Insulin Human AF
CAS-No.:	11061-68-0
EC No.:	234-279-7
Container size:	HDPE plastic bottles. 1 g, 10 g, 50 g, 100 g, 1 kg.
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Application:	For Cell Culture Medium Use. For Further Manufacturing Use Only. Not for Therapeutic Use.
1.3. Details of the supplier of	the safety data sheet
Supplier:	Novo Nordisk Pharmatech A/S Københavnsvej 216 DK-4600 Køge Tel:+45 56 67 10 00 www.novonordiskpharmatech.com
Responsible for safety data sheet authoring:	nnprinfo@novonordiskpharmatech.com
1.4. Emergency telephone nu	mber
Emergency telephone:	NHS: 111 + 45 56 67 10 00 (Only during office hours)
SECTION 2: HAZARDS ID	DENTIFICATION
2.1. Classification of the subs	tance or mixture
<u>CLP:</u>	The product is not classified.
2.2. Label elements	

The substance/mixture does not meet the criteria for classification and labelling.

### 2.3. Other hazards

<u>PBT/vPvB:</u>	This product does not contain any PBT or vPvB substances.
<u>Other:</u>	Dust may form explosive mixture with air. May cause irritation to skin, eyes and respiratory system.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Product name: Revision:	Insulin Human AF 2019-10-29	Page: Print date:	2/9 2022-12-06
Revision.	2013-10-23	SDS-ID:	GB-EN/7.0
CLP:			

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg.</u> <u>No:</u>	Chemical name:	Hazard classification:	<u>Notes:</u>
100	11061-68-0	234-279-7	-	Insulin (human)	-	

### **SECTION 4: FIRST AID MEASURES**

4.1. Description of first aid me	asures			
Inhalation:	Move into fresh air and keep at rest.			
Skin contact:	Rinse with water. If skin irritation occurs: Get medical advice/attention.			
Eye contact:	Rinse the eye with water immediately. Contact physician if irritation persists.			
Ingestion:	Immediately rinse mouth and drink 1-2 glasses of water. Keep person under observation. If uncomfortable: Transportation to hospital. Bring along these instructions.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/effects:	See section 11 for more detailed information on health effects and symptoms.			

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

Medical attention/treatments: Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

### 5.2. Special hazards arising from the substance or mixture

<u>Specific hazards:</u> Dust may form an explosive mixture in the atmosphere.

### 5.3. Advice for firefighters

Protective equipment for fire-<br/>fighters:Selection of respiratory protection for fire fighting: follow the general fire<br/>precautions indicated in the workplace.

Product name:	Insulin Human AF	Page:	3/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

<u>Personal precautions:</u> Follow precautions for safe handling described in this safety data sheet.

### 6.2. Environmental precautions

Environmental Avoid release to the environment.

precautions:

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

Methods for cleaning up:Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of<br/>large amounts of spillage/waste according to agreement with local authorities.<br/>Flush contaminated area with plenty of water. Use spark-proof tools and<br/>explosion-proof equipment.

#### 6.4. Reference to other sections

References:For personal protection, see section 8.For waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

	-
Safe handling advice:	Observe good chemical hygiene practices. Avoid inhalation of dust and contact with skin and eyes.
Technical measures:	Do not smoke or use open fire or other sources of ignition. Use spark-proof tools and explosion-proof equipment.
Technical precautions:	Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.
7.2. Conditions for safe storage	e, including any incompatibilities
Technical measures for safe storage:	No special precautions.
Storage conditions:	Insulin Human must be kept in a deep freezer at -20°C $\pm$ 5°C in tightly closed original packing.

### 7.3. Specific end use(s)

Specific use(s): Not relevant.

Product name:	Insulin Human AF	Page:	4/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits:

CAS-No.:	Chemical name:	<u>As:</u>	Exposure limits:	<u>Type:</u>	Notes:	References:
-	Dusts, respirable dust Dusts, total inhalable dust	-	4 mg/m3 10 mg/m3	TWA TWA	-	EH40 EH40

Notes:

EH40: EH40/2005.

### 8.2. Exposure controls

Engineering measures:	Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.
Personal protection:	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory equipment:	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
Hand protection:	Risk of contact: Wear protective gloves. PVC gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Eye protection:	During dust-raising work: Wear goggles/face shield.
Hygiene measures:	Wash hands after contact.
Environmental Exposure Controls:	Not available.

Product name:	Insulin Human AF	Page:	5/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic phys	sical and chemical properties		
Form:	Powder.		
<u>Colour:</u>	White.		
<u>pH:</u>	Not relevant.		
Melting point / freezing point:	Not available.		
Boiling point:	Not available.		
Flash point:	Not available.		
Explosive limits	Not available.		
Vapour pressure:	Not available.		
Relative density:	Not available.		
<u>Solubility:</u>	Not available.		
<u>Decomposition</u> temperature (°C):	Not available.		
9.2. Other information			
Other data:	Not relevant.		

# SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity		
Reactivity:	None known.	
10.2. Chemical stability		
<u>Stability:</u>	Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous	reactions	
Hazardous Reactions:	None known.	
10.4. Conditions to avoid		
Conditions/materials to avoid:	None specific.	
10.5. Incompatible materials		
Incompatible materials:	Not known.	
10.6. Hazardous decomposition products		
Hazardous decomposition products:	None in particular.	

Product name:	Insulin Human AF	Page:	6/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

## SECTION 11: TOXICOLOGICAL INFORMATION

11.1.	Information	on	toxicological	effects

Acute Toxicity (Oral):	Based on available data, the classification criteria are not met.	
Acute Toxicity (Dermal):	Based on available data, the classification criteria are not met.	
Acute Toxicity (Inhalation):	Based on available data, the classification criteria are not met.	
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.	
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.	
<u>Respiratory or skin</u> sensitisation:	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.	
Carcinogenicity:	Based on available data, the classification criteria are not met.	
Reproductive Toxicity:	Based on available data, the classification criteria are not met.	
STOT - Single exposure:	Based on available data, the classification criteria are not met.	
STOT - Repeated exposure:	Based on available data, the classification criteria are not met.	
Aspiration hazard:	Based on available data, the classification criteria are not met.	
Inhalation:	Dust may irritate throat and respiratory system and cause coughing. Inhalation of dust of insulin crystals may result in a mild temporary decrease of the blood sugar level (hypoglycemia).	
Skin contact:	Powder may irritate skin.	
Eye contact:	Direct contact is irritating.	
Ingestion:	No harmful effects expected in amounts likely to be ingested by accident.	
11.2. Information on other hazards		
Endocrine disrupting	The substance is not identified as having endocrine disrupting properties.	

properties:

Product name:	Insulin Human AF	Page:	7/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity: The product is not expected to be hazardous to the environment. **12.2. Persistence and degradability** 

<u>Degradability:</u> The degradability of the product has not been stated.

### 12.3. Bioaccumulative potential

<u>Bioaccumulative potential:</u> No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility: No data available.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB:

This product does not contain any PBT or vPvB substances.

### 12.6. Endocrine disrupting properties

Endocrine disrupting The substance is not identified as having endocrine disrupting properties.

properties:

### 12.7. Other adverse effects

Other adverse effects: None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste from residues: EWC-code: 16 05 09

Product name:	Insulin Human AF	Page:	8/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

### SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

<u>14.1. UN number</u>		
UN-No:	-	
14.2. UN proper shipping nam	<u>e</u>	
Proper Shipping Name:	-	
14.3. Transport hazard class(e	<u>95)</u>	
<u>Class:</u>	-	
14.4. Packing group		
<u>PG:</u>	-	
14.5. Environmental hazards		
Marine pollutant:	-	
Environmentally Hazardous substance:	-	
14.6. Special precautions for u	iser	
Special precautions:	None known.	
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		
Transport in bulk:	Not relevant.	

### **SECTION 15: REGULATORY INFORMATION**

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

National regulation:	UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc. (Amendment) Regulations 2021. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 720), as amended. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.
	<b>o</b> (
	EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

	15.2.	Chemical	Safety	v Assessment
--	-------	----------	--------	--------------

CSA status:

No chemical safety assessment has been carried out.

Product name:	Insulin Human AF	Page:	9/9
Revision:	2019-10-29	Print date:	2022-12-06
		SDS-ID:	GB-EN/7.0

### **SECTION 16: OTHER INFORMATION**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1, 2, 4, 11, 12, 15, 16.

Abbreviations and acronyms	CSA= Chemical Safety Assessment.
used in the safety data sheet:	PBT = Persistent, Bioaccumulative and Toxic.
	STOT = Specific Target Organ Toxicity.
	vPvB = very Persistent and very Bioaccumulative.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.