

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Awikli® (insulin icodec-abae) injection**

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 of the supplier:

Novo Nordisk Inc.

800 Scudders Mill Road
Plainsboro, NJ, USA
08536

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

24 Hr. Emergency Tel # : 24-hour emergency (Poison Help Line): 1-800-222-1222

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

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

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 regulated.

Precautionary statement(s)

Not required

Other hazards

Other hazards which do not result in classification:

The substance is a pharmacologically active substance.

If the substance is absorbed systemically by inhalation, it has blood-sugar lowering properties. An overdose of inhaled substance may lead to a state of hypoglycaemia, especially in diabetic individuals. Hypoglycaemia is in severe cases lethal if untreated.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Insulin Icodec	Not available	1188379-43-2	1.0 - 3.0
Phenol	Hydroxybenzene Phenyl Alcohol	108-95-2	<1
m-Cresol	Cresol	108-39-4	<1

Phenol and m-cresol are used as preservatives.

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

- : If the substance is absorbed systemically by inhalation, it has blood-sugar lowering properties. An overdose of inhaled substance may lead to a state of hypoglycaemia, especially in diabetic individuals. Hypoglycaemia is in severe cases lethal if untreated.

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

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: 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.

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 hands thoroughly after handling.

Conditions for safe storage : Keep only in original packaging..

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>					
	<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Insulin Icodec	Not available	Not available	Not available	Not available	
Phenol	5 ppm (skin)	Not available	5 ppm (19 mg/m ³) (skin)	Not available	
m-Cresol	20 mg/m ³ (inhalable fraction and vapor) (skin)	Not available	5 ppm (listed under Cresol, all isomers) (skin)	Not available	

m-cresol AT-GV Long-term exposure limit (8-hour TWA reference period): 5 ppm | 22 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Phenol Long-term exposure limit (8-hour TWA reference period): 1 ppm | 4 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Insulin Icodec Long-term exposure limit (8-hour TWA reference period): - ppm | 0,03 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³ Comments: OEL determined for hypoglycaemia

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 : None required under normal conditions.

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

Eye / face protection : Not required under normal conditions of handling.

Other protective equipment : None required when used as intended.

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 should not be allowed out of the workplace.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available.
pH	: Not available
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	: Not applicable.
Lower explosion or flammability limit (% by vol.)	: Not applicable.
Upper explosion or flammability limit (% by vol.)	: Not applicable.
Oxidizing properties	: Not applicable
Explosive properties	: Not explosive
Vapour pressure	: Not available.
Relative vapour density	: Not 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.
Particle characteristics	: Not applicable.
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	: Not applicable

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 freezing.
Incompatible materials	: Strong acids, bases and oxidizing or reducing agents.
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

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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

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Insulin is a pharmacologically active substance with blood sugar (glucose) lowering properties. Inhalation of dust or aerosols may lead to hypoglycaemia (low blood glucose level). Hypoglycaemia can impair concentration ability and reaction time. Severe hypoglycaemia can cause seizures, may lead to unconsciousness and can be life-threatening, if untreated.

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. Insulin icodec showed no carcinogenic potential with subcutaneous exposure in a 52-week toxicity study in Sprague-Dawley rats based upon complete histopathological evaluation of all animals.

Reproductive effects & Teratogenicity

: In a study on fertility and early embryonic development in rats and in an embryo-fetal developmental toxicity study in rabbits, daily s.c. injections led to findings consistent with the intended pharmacological effects in dams, e.g. reduction in plasma glucose levels, increased body weight gain and food consumption. No visceral or skeletal abnormalities were observed. Fetal death in rabbits and reduced survival of pups in a pre- and postnatal developmental toxicity study in rats was considered secondary to hypoglycaemia of the dam.

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) and Canadian WHMIS regulations (Hazardous Products Regulations), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure

: Not available.

Synergistic materials

: Not available.

Toxicological data

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

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<u>Chemical name</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Insulin Icodec	Not available	Not available	Not available
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/m ³	242 mg/kg	620 mg/kg

Other important toxicological hazards

: If the substance is absorbed systemically by inhalation, it has blood-sugar lowering properties. An overdose of inhaled substance may lead to a state of hypoglycaemia, especially in diabetic individuals. Hypoglycaemia is in severe cases lethal if untreated.

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.

Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Insulin Icodec	1188379-43-2	Not available	Not available	None.
Phenol	108-95-2	5.02 mg/L (Rainbow trout)	Not available	None.
m-Cresol	108-39-4	55.9mg/L	Not available	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Insulin Icodec	1188379-43-2	Not available	Not available	None.
Phenol	108-95-2	3.1 mg/L Ceriodaphnia (water flea)	Not available	None.
m-Cresol	108-39-4	18.8 mg/L	Not available	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Insulin Icodec	1188379-43-2	Not available	Not available	None.
Phenol	108-95-2	61.1 mg/L/96hr (Green algae)	Not available	None.
m-Cresol	108-39-4	Not available	Not available	None.

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

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Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Insulin Icodec (CAS 1188379-43-2)	Not available	Not available
Phenol (CAS 108-95-2)	1.47	17.5 dimensionless BCF met
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.

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.

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	
49CFR/DOT Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				

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

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Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Insulin Icodec	1188379-43-2	NL	None.	None.	No	N/Ap
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	Not available	Yes	0.1%

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:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Insulin Icodec	1188379-43-2	No	Not applicable	No	No	No	No	No	No
Phenol	108-95-2	No	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes
m-Cresol	108-39-4	No	Not available	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
Insulin Icodec	1188379-43-2		Not available	Not available	Not available	Not available	Not available	Not available
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

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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

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, CCIInfoWeb databases
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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Other special considerations for handling
: Provide adequate information, instruction and training for operators.

<p>Prepared for: Novo Nordisk 800 Scudders Mill Road Plainsboro, NJ 08536 1-800-727-6500 www.novonordisk-us.com</p>	
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