

according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Insulin Glargine Formulation	
Manufacturer or supplier's de	etai	ils	
Company	:	MSD	
Address	:	199 Wenhai North Road HEDA, Hangzhou - Zhejiang Province - CHINA 310018	
Telephone	:	908-740-4000	
Emergency telephone number	:	86-571-87268110	
E-mail address	:	EHSDATASTEWARD@msd.com	
Recommended use of the chemical and restrictions on use			
Recommended use Restrictions on use	:	Pharmaceutical Not applicable	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	Crystalline powder white No data available		
May be harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.				
GHS Classification Acute toxicity (Oral)	:	Category 5		
Skin corrosion/irritation	:	Category 2		
Serious eye damage/eye irri- tation	:	Category 1		
Specific target organ toxicity - repeated exposure	:	Category 2		
Short-term (acute) aquatic hazard	:	Category 3		

GHS label elements



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

ersion .0	Revision Date: 2024/09/28	SDS Number: 42880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07		
Haza	rd pictograms	:			
Signa	al word	: Danger			
Hazard statements :		H315 Cause H318 Cause H373 May ca peated expo	 H303 May be harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H373 May cause damage to organs through prolonged or repeated exposure. H402 Harmful to aquatic life. 		
Preca	autionary statements	P264 Wash P273 Avoid	breathe dust. skin thoroughly after handling. release to the environment. protective gloves/ eye protection/ face protection.		
		Response: P302 + P352 P305 + P357 water for sev and easy to CENTER/ do P312 Call a P332 + P313 tion.	2 IF ON SKIN: Wash with plenty of water. + P338 + P310 IF IN EYES: Rinse cautiously with veral minutes. Remove contact lenses, if present do. Continue rinsing. Immediately call a POISON		
		Disposal: P501 Dispos disposal plar	e of contents/ container to an approved waste ht.		
Dhye	ical and abamical bar	arda			

Physical and chemical hazards

Not classified based on available information.

Health hazards

May be harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Harmful to aquatic life.

Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

Components

Chemical name	CAS-No.	Concentration (% w/w)
Insulin Glargine	160337-95-1	>= 90 -<= 100
m-Cresol	108-39-4	>= 3 -< 5

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute an delayed		May be harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING MEASURE	S	
Suitable extinguishing me	edia :	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fi fighting	re- :	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version 6.0				Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Hazar ucts	dous combustion prod-	:	Carbon oxides	
Specif ods	Specific extinguishing meth- ods		cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment for firefighters		In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCIDE	NTAL RELEASE MEAS	SUF	RES	
tive ec	nal precautions, protec- quipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	Use only with adequate ventilation.



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version 6.0	Revision Date: 2024/09/28	SDS Number: 42880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Adv	rice on safe handling	: Do not get on Do not breath Do not swallo	
		Handle in acc practice, base sessment Keep contain Minimize dust Keep contain Keep away fr Take precauti	eyes. broughly after handling. bordance with good industrial hygiene and safety ed on the results of the workplace exposure as- er tightly closed. If generation and accumulation. er closed when not in use. for heat and sources of ignition. for any measures against static discharges. borevent spills, waste and minimize release to the
Avo	idance of contact	: Oxidizing age	nts
Sto	rage		
Cor	nditions for safe storage	Keep tightly c	erly labelled containers. losed. rdance with the particular national regulations.
Mat	erials to avoid		with the following product types:
Pac	kaging material	: Unsuitable ma	aterial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Insulin Glargine	160337-95-1	TWA	3 µg/m3 (OEB 4)	Internal
m-Cresol	108-39-4	PC-TWA	10 mg/m3	CN OEL
	Further informa	ation: Skin		
		TWA (Inhal- able fraction and vapor)	20 mg/m3	ACGIH

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-

according to GB/T 16483 and GB/T 17519



Insulin Glargine Formulation

Version 6.0	Revision Date: 2024/09/28	SDS Number: 42880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
	ilter type face protection	: Combined p : Wear the fo Chemical re	guidelines, use respiratory protection. particulates and organic vapour type llowing personal protective equipment: psistant goggles must be worn. are likely to occur, wear:
	and body protection	Face-shield : Select approved resistance of potential. Skin contac	
Hand	d protection		
М	laterial	: Chemical-re	esistant gloves
R	emarks	on the conc stance and determined applications chemicals of	ves to protect hands against chemicals depending entration and quantity of the hazardous sub- specific to place of work. Breakthrough time is not for the product. Change gloves often! For special , we recommend clarifying the resistance to f the aforementioned protective gloves with the facturer. Wash hands before breaks and at the day.
Hygie	ene measures	: If exposure eye flushing ing place. When using	to chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. minated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Crystalline powder
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Versi 6.0	ion	Revision Date: 2024/09/28		S Number: 880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
	Flamma	ability (liquids)	:	No data available	
	Upper explosion limit / Upper flammability limit		:	No data available	
		explosion limit / Lower bility limit	:	No data available)
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n-	:	No data available)
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle Particle	characteristics size	:	No data available	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

11. TOXICOLOGICAL INFORMATION Exposure routes Inhalation : Skin contact Ingestion Eye contact Acute toxicity May be harmful if swallowed. Product: Acute toxicity estimate: 3,025 mg/kg Acute oral toxicity : Method: Calculation method Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method **Components: Insulin Glargine:** Acute oral toxicity : Remarks: No data available Acute inhalation toxicity : Remarks: No data available Acute dermal toxicity : Remarks: No data available m-Cresol: Acute oral toxicity : LD50 (Rat): 121 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract. : LD50 (Rabbit): 301 mg/kg Acute dermal toxicity Remarks: Based on data from similar materials Skin corrosion/irritation Causes skin irritation. Components: **Insulin Glargine:** Remarks : No data available m-Cresol: Species : Rabbit Result : Corrosive after 3 minutes to 1 hour of exposure



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version 6.0	Revision Date: 2024/09/28		Number: 0-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
	ous eye damage/eye		1	
	es serious eye dama <u>ç</u> ponents:	je.		
Insul Rema	in Glargine: arks	: N	lo data availabl	e
m-Cr Spec Resu	ies		abbit reversible effec	cts on the eye
Resp	iratory or skin sensi	tisation		
•••••	sensitisation lassified based on ava	ailable in	ormation.	
•	iratory sensitisation lassified based on ava		ormation.	
Com	ponents:			
Insul Rema	in Glargine: arks	: N	lo data availabl	e
Not c	n cell mutagenicity lassified based on ava ponents:	ailable in	ormation.	
	in Glargine:			
Geno	otoxicity in vitro	F	lesult: negative	erial reverse mutation assay (AMES) d on data from similar materials
		F	esult: negative	ro mammalian cell gene mutation test d on data from similar materials
		F	lesult: negative	mosome aberration test in vitro d on data from similar materials
m-Cr	esol:			
Geno	otoxicity in vitro	Ν		mosome aberration test in vitro Test Guideline 473
				erial reverse mutation assay (AMES) Test Guideline 471



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version 6.0	Revision Date: 2024/09/28		Number: 0-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Gend	otoxicity in vivo	: T c S A N		
	inogenicity			
	lassified based on avail	able in	formation.	
	ponents:			
Spec	sure time EL	: 2 : 0	Rat 2 Years 9.455 mg/kg body legative	weight
Spec Expo NOA Resu	sure time EL	: 2 : 0	/louse 2 Years 9.455 mg/kg body 9.egative	weight
m-Cr	esol:			
	cation Route sure time Ilt	: I : 1 : e	Nouse, males ngestion 05 weeks equivocal Based on data fro	n similar materials
	cation Route Isure time Ilt	: lı : 1 : p	Nouse, female ngestion 06 - 107 weeks oositive Based on data fro	n similar materials
Carc ment	inogenicity - Assess-		Veight of evidenc inogen	e does not support classification as a car-
Not c <u>Com</u>	oductive toxicity classified based on avail ponents:	able in	formation.	
	l in Glargine: ts on fertility		Det Type: Fortility	Vearly embryonic development
Enec		S	Species: Rat	v/early embryonic development Subcutaneous

according to GB/T 16483 and GB/T 17519



Insulin Glargine Formulation

Version 6.0	Revision Date: 2024/09/28	SDS Number: 42880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Effect	s on foetal develop-	Result: No Test Type: Species: R Application Fertility: No Result: No : Test Type: Species: R Application Developme Result: No Species: R Application Developme Result: Fet	Route: Subcutaneous DAEL: 0.072 mg/kg body weight effects on fertility Embryo-foetal development at Route: Subcutaneous ental Toxicity: NOAEL: 0.36 mg/kg body weight effects on foetal development abbit Route: Subcutaneous ental Toxicity: LOAEL: 0.072 mg/kg body weight otoxicity The mechanism or mode of action may not be rele-
m-Cre	esol:		
Effect	s on fertility	Species: R	Route: Ingestion
Effect ment	s on foetal develop-	Species: R	Route: Ingestion
II STOT	- single exposure		

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Insulin Glargine:

Exposure routes	: Ingestion	
Target Organs	: Blood, Nervous system	
Assessment	: May cause damage to organs through prolonged or repeated	
11	exposure.	



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

Repeated dose toxicity

Components:

Insulin Glargine:

: Rat
: 0.5 mg/kg
: 1.5 mg/kg
: Subcutaneous
: 30 d
: Blood, Nervous system

m-Cresol:

Species NOAEL Application Route Exposure time Method	: Rat : 150 mg/kg : Ingestion : 13 Weeks
Method	: OECD Test Guideline 408

:

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Insulin Glargine:

Inhalation	
------------	--

Target Organs: Blood Symptoms: Hypoglycemia, Headache, Sweating, Tremors, Nausea

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

m-Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): > 99.5 mg/l Exposure time: 48 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 1.35 mg/l Exposure time: 32 d Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 1 mg/l Exposure time: 21 d



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

/ersion 5.0	Revision Date: 2024/09/28		S Number: 880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07	
ic tox Persi	icity) stence and degrada	bility	Remarks: Bas	ed on data from similar materials	
<u>Com</u>	ponents:				
m-Cr	esol:				
		:	Result: Readily biodegradable. Biodegradation: 90 % Exposure time: 28 d Method: OECD Test Guideline 301D		
Bioad	ccumulative potentia	al			
Com	ponents:				
m-Cr	esol:				
Bioac	cumulation	:		iscus idus (Golden orfe) on factor (BCF): 17 - 20	
	ion coefficient: n- ol/water	:	log Pow: 1.96		
	lity in soil ata available				
	r adverse effects ata available				

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

IATA-DGR

IATA-DON			
UN/ID No.	:	Not applicable	
Proper shipping name	:	Not applicable	
Class	:	Not applicable	
Subsidiary risk	:	Not applicable	
Packing group	:	Not applicable	
Labels	:	Not applicable	
Packing instruction (cargo	:	Not applicable	
aircraft) Packing instruction (passen-	:	Not applicable	
ger aircraft)			
o ,			
IMDG-Code UN number	:	Not applicable	
IMDG-Code	:	Not applicable Not applicable	
IMDG-Code UN number	:		
IMDG-Code UN number Proper shipping name	:	Not applicable	
IMDG-Code UN number Proper shipping name Class	:	Not applicable Not applicable	
IMDG-Code UN number Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable	
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group	:	Not applicable Not applicable Not applicable Not applicable	
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels	-	Not applicable Not applicable Not applicable Not applicable Not applicable	

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases		
Regulations on Safety Management of Haza	rdous Chemicals	
Catalogue of Hazardous Chemicals	: This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.	
Identification of Major Hazard Installations for H	lazardous Chemicals (GB · Not listed	

Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed



according to GB/T 16483 and GB/T 17519

Insulin Glargine Formulation

ersion)	Revision Date: 2024/09/28	SDS Number: 42880-00027	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Ширан			
18218	3)		
Hazaı SAWS	rdous Chemicals for Prid S	prity Management un	der : Not listed
Regu	lations on Labour Pro	tection in Workplac	es where Toxic Substances are Used
	ogue of Highly Toxic Ch	-	: Not listed
II			
	lation of Environmenta Export of Toxic Chemic		he First Import of Chemicals and the Impor
	Severely Restricted To		port : Not listed
and E	-		
II			
-	lation on the Administ		
Catal	ogue and Classification	of Precursor Chemic	als : Not listed
Yang	tze River Protection La	aw	
-			micals prohibited for inland river transport.
-			n the following inventories:
AICS		: not determined	5
DSL		: not determined	
	-		
IECS		: not determined	
	0		
. OTHE	R INFORMATION		
		: 2024/09/28	
Revis	R INFORMATION		
Revis Furth Sourc	R INFORMATION ion Date er information ces of key data used to	: 2024/09/28 : Internal technic	al data, data from raw material SDSs, OECD
Revis Furth Sourc comp	R INFORMATION tion Date ter information ces of key data used to ile the Safety Data	 : 2024/09/28 : Internal technic eChem Portal s 	earch results and European Chemicals Agen
Revis Furth Sourc comp Sheet	R INFORMATION tion Date ter information tees of key data used to ile the Safety Data t	 : 2024/09/28 : Internal technic eChem Portal s cy, http://echa.e 	earch results and European Chemicals Ageneuropa.eu/
Revis Furth Sourc comp Sheet Items	R INFORMATION tion Date ter information tees of key data used to ile the Safety Data t	 2024/09/28 Internal technic eChem Portal s cy, http://echa.e een made to the prev 	earch results and European Chemicals Agen- europa.eu/
Revis Furth Sourc comp Sheet Items docur	R INFORMATION ion Date her information ces of key data used to ile the Safety Data t where changes have be	 2024/09/28 Internal technic eChem Portal s cy, http://echa.e een made to the prev 	earch results and European Chemicals Ageneuropa.eu/
Revis Furth Sourc comp Sheet Items docur	R INFORMATION ion Date her information ces of key data used to ile the Safety Data t where changes have be ment by two vertical line	 : 2024/09/28 : Internal technic eChem Portal s cy, http://echa.e een made to the previs. : yyyy/mm/dd 	earch results and European Chemicals Ageneuropa.eu/
Revis Furth Sourc comp Sheet Items docur Date Full to ACGI	R INFORMATION ion Date ter information ces of key data used to ile the Safety Data t where changes have be nent by two vertical line format ext of other abbreviation H	 : 2024/09/28 : Internal technic eChem Portal s cy, http://echa.e een made to the previs. : yyyy/mm/dd ons : USA. ACGIH The second second	earch results and European Chemicals Ageneuropa.eu/ vious version are highlighted in the body of this
Revis Furth Sourc comp Sheet Items docur Date	R INFORMATION ion Date ter information ces of key data used to ile the Safety Data t where changes have be nent by two vertical line format ext of other abbreviation H	 : 2024/09/28 : Internal technic eChem Portal s cy, http://echa.e een made to the previs. : yyyy/mm/dd ons : USA. ACGIH TH : Occupational e 	earch results and European Chemicals Ageneuropa.eu/ vious version are highlighted in the body of this
Revis Furth Sourc comp Sheet Items docur Date Full to ACGI CN O	R INFORMATION ion Date ter information ces of key data used to ile the Safety Data t where changes have be nent by two vertical line format ext of other abbreviation H	 : 2024/09/28 : Internal technic eChem Portal s cy, http://echa.e een made to the previs. : yyyy/mm/dd OS : USA. ACGIH TI : Occupational exworkplace - Chairs : 8-hour, time-wee 	earch results and European Chemicals Agene europa.eu/ rious version are highlighted in the body of thi hreshold Limit Values (TLV) xposure limits for hazardous agents in the emical hazardous agents.

according to GB/T 16483 and GB/T 17519



Insulin Glargine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	42880-00027	Date of first issue: 2015/01/07

AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CN / EN