

Infliximab Formulation

Versie 2.1	on	Revision Date: 2023/09/26		S Number: 72-00022	Date of last issue: 2023/03/20 Date of first issue: 2014/10/07
1. PR	ODUC	T AND COMPANY IDE	ENT	FICATION	
F	Product	name	:	Infliximab Formul	lation
		cturer or supplier's d	etai		
(Compa	ny		MSD	
ŀ	Addres	6	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
٦	Telepho	one	:	908-740-4000	
E	Emerge	ency telephone number	:	1-908-423-6000	
E	E-mail a	address	:	EHSDATASTEW	'ARD@msd.com
F	Recom	mended use of the ch	nemi	ical and restrictic	ons on use
-		mended use ions on use	:	Pharmaceutical Not applicable	

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 60 -<= 100
Infliximab	170277-31-3	>= 10 -< 30

4. FIRST AID MEASURES



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	Genera	al advice	:	vice immediately.	ident or if you feel unwell, seek medical ad- persist or in all cases of doubt seek medical
		ed of skin contact of eye contact	:	If inhaled, remove Get medical atten Wash with water	tion if symptoms occur. and soap. tion if symptoms occur.
	If swall	owed	:	Get medical atten If swallowed, DO Get medical atten Rinse mouth thor	tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur. oughly with water.
	and eff delayed Protect	nportant symptoms ects, both acute and d ion of first-aiders o physician	:	the skin. Dust contact with No special precau	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. itions are necessary for first aid responders. cally and supportively.
5. FI	REFIG	HTING MEASURES			
		e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	media	able extinguishing c hazards during fire-	:	concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides	
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	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
	Specia for firef	l protective equipment ighters	:	essary.	ed breathing apparatus for firefighting if nec-
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).

Environmental precautions : Avoid release to the environment.



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		ls and materials for ment and cleaning up	:	Retain and dispos Local authorities a cannot be contain Sweep up or vacu tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the o	uum up spillage and collect in suitable con- l. f dust in the air (i.e., clearing dust surfaces air). buld not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. regulations may apply to releases and dis- trial, as well as those materials and items cleanup of releases. You will need to deter-
				mine which regula Sections 13 and 1	ations are applicable. I5 of this SDS provide information regarding ational requirements.
7. HA	NDLIN	IG AND STORAGE			
ſ	Technic	cal measures	:	causing an explose Provide adequate	nay accumulate and ignite suspended dust sion. e precautions, such as electrical grounding nert atmospheres.
L	_ocal/T	otal ventilation	:	Use only with ade	
		on safe handling	:	Do not breathe du	
				practice, based of sessment Minimize dust ger Keep container cl Keep away from h Take precautiona Take care to prev	ance with good industrial hygiene and safety in the results of the workplace exposure as- neration and accumulation. osed when not in use. neat and sources of ignition. ry measures against static discharges. ent spills, waste and minimize release to the
C	Conditio	ons for safe storage	:	environment. Keep in properly l	abelled containers.
		-		Store in accordan	ce with the particular national regulations.
Ν	Materia	Ils to avoid	:	Do not store with Strong oxidizing a	the following product types: agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters						
Components	CAS-No.	Value type	Control parame-	Basis		
		(Form of	ters / Permissible			
	exposure) concentration					
Sucrose	57-50-1	NAB	10 mg/m3	ID OEL		
	Further information: Not classified as carcinogenic to humans. Not enough data to classify these materials as carcinogenic to hu-					
	enough data to	classify these n	naterials as carcinog	enic to hu-		



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		mans or anima	ls		
			TWA	10 mg/m3	ACGIH
Infliximab		170277-31-3	TWA	150 µg/m3	Internal
Engineering measures	:	Minimize work Apply measur Ensure that du dust collectors signed in a ma	xplace exposu es to prevent ust-handling s s, vessels, and anner to preve	a, especially in confi re concentrations. dust explosions. ystems (such as ex d processing equipn ent the escape of du eakage from the eq	haust ducts, nent) are de- ist into the
Personal protective equipm	nent	:			
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type			
Material	:	Chemical-resi	stant gloves		
Remarks	:			contact use protectivand at the end of w	
Eye protection	:	 Wear the following personal protective equipment: Safety goggles Skin should be washed after contact. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 			
Skin and body protection Hygiene measures	:				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Amorphous powder
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	7.2
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available



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Evap	poration rate	:	No data available	e
Flam	mability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	e
	er explosion limit / Lower mability limit	:	No data available	e
Vapo	our pressure	:	No data available	9
Rela	tive vapour density	:	No data available	9
Rela	tive density	:	No data available	9
Dens	sity	:	1 g/cm ³	
Solubility(ies) Water solubility		:	No data available	e
	tion coefficient: n- nol/water	:	No data available	9
	-ignition temperature	:	No data available	e
Deco	omposition temperature	:	No data available	e
Visco V	osity iscosity, kinematic	:	No data available	e
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available	9
Parti	cle size	:	No data available	e

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions. Possibility of hazardous reac- tions : May form explosive dust-air mixture during processing, han- dling or other means.	Reactivity	:	Not classified as a reactivity hazard.
	Chemical stability	:	Stable under normal conditions.
Can react with strong oxidizing agents.		:	dling or other means.



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Conc	litions to avoid	: Heat, flames	
	npatible materials Irdous decomposition ucts	Avoid dust for : Oxidizing age : No hazardous	
1. TOXIC		ION	
Infori expo	mation on likely routes of sure	: Inhalation Skin contact Ingestion Eye contact	
	e toxicity	h ha da fa ma a tha a	
	classified based on availa ponents:	Die Information.	
Sucr		: LD50 (Rat): 29	9,700 mg/kg
-	corrosion/irritation lassified based on availa	ble information.	
<u>Com</u>	ponents:		
Inflix Rem	t imab: arks	: No data availa	ble
Not c	bus eye damage/eye irri classified based on availa		
	ponents:		
Inflix Rem	t imab: arks	: No data availa	ble
Resp	piratory or skin sensitis	ation	
-	sensitisation classified based on availa	ble information.	
-	biratory sensitisation classified based on availa	ble information.	
	n cell mutagenicity classified based on availa	ble information.	
<u>Com</u>	ponents:		
Sucr	ose:		
Geno	otoxicity in vitro	: Test Type: In Result: negativ	vitro mammalian cell gene mutation test ve
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imab:			
toxicity in vitro	:	Method: OECE	cterial reverse mutation assay (AMES) D Test Guideline 471 re
		Test system: h	romosomal aberration uman lymphoblastoid cells re
toxicity in vivo	:	Species: Mous Method: OECE	e) Test Guideline 474
cell mutagenicity - ssment	:	Weight of evide cell mutagen.	ence does not support classification as a gerr
nogenicity assified based on avai	lable	information.	
oductive toxicity assified based on avai	lable	information.	
oonents:			
imab:			
s on fertility	:	Species: Mous Application Ro Fertility: NOAE	
s on foetal develop-	:	Species: Mous Application Ro Duration of Sir General Toxici Teratogenicity: Developmenta	bryo-foetal development e, female ute: Intravenous injection gle Treatment: 6 - 12 d ty Maternal: NOAEL: 40 mg/kg body weight NOAEL F1: 40 mg/kg body weight I Toxicity: NOAEL F1: 40 toxicity: NOAEL: 40 mg/kg body weight
	2023/09/26 imab: toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity assified based on avai oductive toxicity assified based on avai oductive toxicity assified based on avai ponents: imab: is on fertility	2023/09/26 19 imab: : toxicity in vitro : toxicity in vivo : cell mutagenicity - : ssment : nogenicity assified based on available oductive toxicity assified based on available conents: : imab: : so on fertility :	2023/09/26 19272-00022 imab: toxicity in vitro : Test Type: Bac Method: OECE Result: negativ Test Type: Chr Test system: h Result: negativ toxicity in vivo : Test Type: Mic Species: Mous Method: OECE Result: negativ cell mutagenicity - : Weight of evide cell mutagenicity assified based on available information. Ductive toxicity assified based on available information. Donents: imab: is on fertility : Test Type: Fer Species: Mous Application Ro Fertility: NOAE Remarks: Base is on foetal develop- : Test Type: Em Species: Mous Application Ro Duration of Sin General Toxici Teratogenicity:

STOT - repeated exposure

Not classified based on available information.



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Repeated dose toxicity

Components:

Infliximab:

Species	:	Mouse
NOAEL	:	40 mg/kg
Application Route	:	Intravenous
Exposure time	:	6 Months
Number of exposures	:	daily

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Infliximab:

Inhalation

: Symptoms: Nausea, Vomiting, Abdominal pain, Diarrhoea, Fatigue, Headache, Back pain

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Components:	
Infliximab:	
Ecotoxicology Assessment Acute aquatic toxicity :	No data available
Chronic aquatic toxicity :	No data available
Persistence and degradability No data available Bioaccumulative potential	
Components:	
Sucrose: Partition coefficient: n- : octanol/water	Pow: < 1
Mobility in soil No data available	
Other adverse effects No data available	



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
Contaminated packaging		Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han-
Containinated publicitying	•	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
IATA-DGR		
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 aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

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

Not applicable for product as supplied.

Special precautions for user

Not applicable



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15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances
Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	2023/09/26		
Further information				
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				



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ACGIH ID OEL	USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits
ACGIH / TWA ID OEL / NAB	8-hour, time-weighted average Long term exposure limit

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

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.

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