according to the Globally Harmonized System



## Human Chorionic Gonadotropin Formulation (Veterinary)

Version	Revision Date:	SDS Number:	Date of last issue: 12.12.2023
3.0	28.09.2024	8700924-00010	Date of first issue: 03.06.2021

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Human Chorionic Gonadotropin Formulation (Veterinary)
Other means of identification	:	Chorulon 1500 IU (A001419) Chorulon 5000 IU (A002377) CHORULON CHORIONIC GONADOTROPHIN 5000 IU (37225)

#### Manufacturer or supplier's details

Company	:	MSD			
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	+1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary product			

## 2. HAZARDS IDENTIFICATION

Restrictions on use

### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

#### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

: Not applicable

#### **GHS Classification**

Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Ovary)

## **GHS** label elements

Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H360Fd May damage fertility. Suspected	d of damaging the un-

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		born child. H372 Causes da repeated exposi	amage to organs (Ovary) through prolonged or ure.
Preca	utionary statements	P260 Do not bre P264 Wash han P270 Do not eat	ds thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protec-
		<b>Response:</b> P318 IF expose	d or concerned, get medical advice.
		<b>Storage:</b> P405 Store lock	ed up.
		<b>Disposal:</b> P501 Dispose o disposal plant.	f contents/ container to an approved waste

## 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)
Gonadotropin, chorionic	9002-61-3	>= 90 - <= 100

## 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical ad vice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medica advice.</li> </ul>	
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and pler of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	וty
In case of eye contact	: If in eyes, rinse well with water. Get medical attention if irritation develops and persists.	

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	If swallowed Most important symptoms and effects, both acute and delayed		:	Get medical atten Rinse mouth thoro May damage fertil child. Causes damage t exposure.	
		ion of first-aiders o physician	:	Dust contact with First Aid responde and use the recor when the potentia	the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.
5. F	IREFIGI	TING MEASURES			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N Sulphur oxides	NOx)
	Specific 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
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

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			spose of contaminated wash water. ies should be advised if significant spillages ntained.
Methods and materials for containment and cleaning up		tainer for disp Avoid dispers with compress Dust deposits es, as these r leased into the Local or natio posal of this n employed in t mine which re Sections 13 a	al of dust in the air (i.e., clearing dust surfaces
7. HAND	LING AND STORAGE		

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	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Conditions for safe storage	:	environment. Keep in properly labelled containers. Store locked up. Keep tightly closed.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Gonadotropin, chorionic	9002-61-3	TWA	OEB 4 (3 µg/m3)	Internal
		Wipe limit	25 µg/100 cm <sup>2</sup>	Internal

Engineering measures	:	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). If sufficient ventilation is unavailable, use with local exhaust ventilation.
Personal protective equipme	ent	
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-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment: Safety goggles
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: powder

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	Colour		:	off-white	
	Odour		:	odourless	
	Odour <sup>-</sup>	Threshold	:	No data available	)
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	3
	Vapour	pressure	:	No data available	)
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	9
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
_	Molecu	lar weight	:	No data available	)

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/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 8700924-00010	Date of last issue: 12.12.2023 Date of first issue: 03.06.2021			
	cle characteristics cle size	: No data availa	ble			
0. STABI		(				
	tivity nical stability bility of hazardous reac-	<ul> <li>Stable under n</li> <li>May form explo dling or other r</li> </ul>	as a reactivity hazard. ormal conditions. osive dust-air mixture during processing, har neans. strong oxidizing agents.			
Cond	itions to avoid	: Heat, flames a	•			
	npatible materials rdous decomposition icts	<ul><li>Avoid dust formation.</li><li>Oxidizing agents</li><li>No hazardous decomposition products are known.</li></ul>				
1. TOXIC		ΓΙΟΝ				
Inforn expos	nation on likely routes of sure	: Inhalation Skin contact Ingestion				
		Eye contact				
	<b>e toxicity</b> lassified based on availa	Eye contact				
Not cl <b>Skin</b>	-	Eye contact				
Not cl <b>Skin</b> Not cl <b>Serio</b>	lassified based on availa	Eye contact able information. able information.				
Not cl <b>Skin</b> Not cl <b>Serio</b> Not cl	lassified based on availa corrosion/irritation lassified based on availa	Eye contact able information. able information. itation able information.				
Not cl Skin Not cl Serio Not cl Resp Skin	lassified based on availa corrosion/irritation lassified based on availa ous eye damage/eye irri lassified based on availa	Eye contact able information. able information. <b>itation</b> able information.				
Not cl Skin Not cl Serio Not cl Resp Skin Not cl Resp	lassified based on availa corrosion/irritation lassified based on availa ous eye damage/eye irri lassified based on availa iratory or skin sensitis sensitisation	Eye contact able information. able information. <b>itation</b> able information. <b>ation</b>				
Not cl Skin Not cl Serio Not cl Skin Not cl Resp Not cl Germ	lassified based on availa corrosion/irritation lassified based on availa ous eye damage/eye irri lassified based on availa iratory or skin sensitis sensitisation lassified based on availa iratory sensitisation	Eye contact able information. able information. <b>itation</b> able information. able information.				
Not cl Skin d Serio Not cl Resp Skin d Not cl Germ Not cl Carci	lassified based on availa corrosion/irritation lassified based on availa ous eye damage/eye irri lassified based on availa iratory or skin sensitis sensitisation lassified based on availa iratory sensitisation lassified based on availa o cell mutagenicity	Eye contact able information. able information. <b>itation</b> able information. able information. able information.				
Not cl Skin Not cl Serio Not cl Resp Skin Not cl Germ Not cl Carci Not cl Repr	lassified based on availa corrosion/irritation lassified based on availa ous eye damage/eye irri lassified based on availa iratory or skin sensitis sensitisation lassified based on availa iratory sensitisation lassified based on availa in cell mutagenicity lassified based on availa	Eye contact able information. able information. <b>itation</b> able information. able information. able information. able information.	unborn child.			

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ment	oductive toxicity - As-	Fertility: LOAE Result: Effects Test Type: Fe Application Ro Fertility: LOAE Result: Effects Test Type: Fe Species: Mon Fertility: LOAE Result: Effects : Test Type: En Species: Ham Application Ro Embryo-foeta Result: Embry : Positive evide fertility from h	rtility oute: Intraperitoneal injection EL: 0.883 mg/kg body weight s on fertility rtility key EL: 0.224 mg/kg body weight s on fertility hbryo-foetal development
Not c	Γ - single exposure lassified based on availa Γ - repeated exposure	able information.	
	es damage to organs (C ponents:	Ovary) through prolo	nged or repeated exposure.
Targe	adotropin, chorionic: et Organs ssment	: Ovary : Causes dama exposure.	ge to organs through prolonged or repeated
-	ration toxicity lassified based on availa	able information.	
Expe	rience with human exp	oosure	
Com	nononte:		

## Components:

## Gonadotropin, chorionic:

Inhalation

## : Target Organs: ovaries

Symptoms: effects on menstruation, gynecomastia, Headache, mental depression, Irritability, restlessness, Fatigue

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### 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

### Persistence and degradability

No data available

**Bioaccumulative potential** 

No data available

Mobility in soil

No data available

Other adverse effects No data available

**13. DISPOSAL CONSIDERATIONS** 

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

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

### **15. REGULATORY INFORMATION**

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

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

AICS : not determined



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DSL		:	not determined	
IECS	SC	:	not determined	
16. OTHE	R INFORMATION			
Revi	sion Date	:	28.09.2024	
Furt	her information			
	ces of key data used to bile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

#### Full text of other abbreviations

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



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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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