

Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/29
2.3	2023/12/12	8700923-00009	Date of first issue: 2021/06/03

#### **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	:	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone number	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	om	ical and restrictions on use

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### 2. HAZARDS IDENTIFICATION

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 of damaging the un- born child. H372 Causes damage to organs (Ovary) through prolonged or repeated exposure.



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Precautionary statements	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe dust.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>
	Response:
	P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### 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	>= 60 -<= 100

#### 4. FIRST AID MEASURES

General advice	In the case of accident or if you fee vice immediately. When symptoms persist or in all ca advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately flus of water. Remove contaminated clothing and Get medical attention. Wash clothing before reuse.	



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		Th	oroughly clean	shoes before reuse.
In ca	ase of eye contact	: Ifi	n eyes, rinse w	ell with water.
lf sv	vallowed	: Ifs Ge	swallowed, DO et medical atten	
Most important symptoms and effects, both acute and delayed		: Ma chi Ca	ay damage ferti ild.	bughly with water. lity. Suspected of damaging the unborn o organs through prolonged or repeated
Prot	ection of first-aiders	the Du : Fir an	e skin. Ist contact with st Aid responde d use the recor	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment
Note	es to physician			l for exposure exists (see section 8). cally and supportively.
5. FIREF	IGHTING MEASURES			
Suit	able extinguishing media	Alo Ca	ater spray cohol-resistant f irbon dioxide (C y chemical	
Unsuitable extinguishing media		: No	ne known.	
Spe fight	cific hazards during fire- ing	co po	ncentrations, ai tential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. Dustion products may be a hazard to health.
Haz ucts	ardous combustion prod-	Nit	rbon oxides rogen oxides (I Iphur oxides	NOx)
Spe ods	cific extinguishing meth-	cu Us Re so	mstances and t e water spray t move undamag	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
	cial protective equipment refighters	: In		e, wear self-contained breathing apparatus. ective equipment.
S. ACCII	DENTAL RELEASE MEAS	SURES		
	sonal precautions, protec- equipment and emer-			ective equipment. ing advice (see section 7) and personal pro-

tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).



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			Retain and disp	leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ained.	
Methods and materials for containment and cleaning up			Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surface es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.		
7. HAN	IDLING AND STORA	GE			
Te	echnical measures	:	causing an expl Provide adequa	may accumulate and ignite suspended dust losion. Ite precautions, such as electrical grounding inert atmospheres.	
Lo	ocal/Total ventilation	:	If sufficient vent ventilation.	ilation is unavailable, use with local exhaust	
Ad	dvice on safe handling	ı :	Do not get on si Do not breathe Do not swallow. Avoid contact w Wash skin thoro Handle in accor practice, based sessment Keep container Keep container Keep away from Take precautior Do not eat, drin	dust. 	
Co	onditions for safe stor	age :	Store locked up Keep tightly clo	sed.	
M	aterials to avoid	:		ance with the particular national regulations. h the following product types: g agents	



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
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 equipm	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand 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 resistance data and an assessment of the local exposure potential. 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 work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	powder	
	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	)
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	soluble	
		n coefficient: n-	:	No data available	)
	octanol Auto-ig	nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty sosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	



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	zing properties	: The substand	ce or mixture is not classified as oxidizing.
	cular weight de size	: No data avail	
0. STABI	ILITY AND REACTIVI	гү	
	tivity nical stability bility of hazardous rea	: Stable under c- : May form exp dling or other	as a reactivity hazard. normal conditions. blosive dust-air mixture during processing, han- means. h strong oxidizing agents.
Incom	itions to avoid npatible materials rdous decomposition acts	<ul> <li>Heat, flames</li> <li>Avoid dust fo</li> <li>Oxidizing age</li> <li>No hazardous</li> </ul>	rmation.
1. TOXIC		ATION	
Inforn expos	nation on likely routes sure	of : Inhalation Skin contact Ingestion Eye contact	
	e toxicity		
	lassified based on ava	ilable information.	
Skin corrosion/irritation			

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.



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#### Reproductive toxicity

May damage fertility. Suspected of damaging the unborn child.

#### **Components:**

Gonadotropin, chorionic:	
Effects on fertility :	Test Type: Fertility Species: Rat Application Route: Intravenous injection Fertility: LOAEL: 8.89 mg/kg body weight Result: Effects on fertility
	Test Type: Fertility Application Route: Intraperitoneal injection Fertility: LOAEL: 0.883 mg/kg body weight Result: Effects on fertility
	Test Type: Fertility Species: Monkey Fertility: LOAEL: 0.224 mg/kg body weight Result: Effects on fertility
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Hamster Application Route: Intraperitoneal injection Embryo-foetal toxicity: LOAEL: 60 mg/kg body weight Result: Embryo-foetal toxicity
Reproductive toxicity - As- : sessment	Positive evidence of adverse effects on sexual function and fertility from human epidemiological studies., Some evidence of adverse effects on development, based on animal experiments.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs (Ovary) through prolonged or repeated exposure.

#### Components:

#### Gonadotropin, chorionic:

Target Organs Assessment Ovary
Causes damage to organs through prolonged or repeated exposure.

#### Aspiration toxicity

Not classified based on available information.

Labels

Class

IATA-DGR

UN/ID No.

Proper shipping name



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Expe	erience with human e	xposure	
-	ponents:	•	
Gona	adotropin, chorionic:		
Inhal	ation		s: ovaries fects on menstruation, gynecomastia, Head- depression, Irritability, restlessness, Fatigue
12. ECOL	OGICAL INFORMATI	ON	
	<b>oxicity</b> ata available		
	<b>istence and degradal</b> ata available	oility	
	<b>ccumulative potentia</b> ata available	I	
	i <b>lity in soil</b> ata available		
	r adverse effects ata available		
13. DISPO	DSAL CONSIDERATION	ONS	
Disp	osal methods		
•	e from residues		e of waste into sewer.
Conta	aminated packaging	: Empty contain dling site for re	accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. he specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATIC	<b>N</b>	
Inter	national Regulations		
UNR	TDG		
	umber	: Not applicable	
Prope Class	er shipping name	: Not applicable : Not applicable	
	s idiary risk	: Not applicable	
Pack	ing group	: Not applicable	)
l ahe	ls	Not applicable	

Not applicable

Not applicable

Not applicable

Not applicable

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Subsidiary risk Packing group Labels Packing instruction (cargo aircraft)	:	Not applicable Not applicable Not applicable Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
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

#### 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

#### 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



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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	:	2023/12/12
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

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 Tem-



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perature; 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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