

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Other means of identification	:	Human Chorionic Gonadotropin Formulation (Veterinary) Chorulon 1500 IU (A001419) Chorulon 5000 IU (A002377)
Manufacturer or supplier's o	deta	ails
Company name of supplier	:	MSD
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the cl	hen	nical and restrictions on use
Recommended use	:	Veterinary product
Restrictions on use		Not applicable
	•	

#### **SECTION 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.
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> <li>Response:</li> </ul>



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		P308 + P313 IF attention.	exposed or concerned: Get medical advice/
		<b>Storage:</b> P405 Store lock	ked up.
		<b>Disposal:</b> P501 Dispose c posal plant.	of contents/ container to an approved waste dis-

#### Other hazards

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.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Gonadotropin, chorionic	9002-61-3	>= 90 -<= 100

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	
Most important symptoms and effects, both acute and delayed	:	May damage fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. 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).



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Note	s to physician	:	Treat symptomatically and supportively.		
SECTION	5. FIRE-FIGHTING ME	ASL	IRES		
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical		
Unsu medi	itable extinguishing a	:	None known.		
Spec fighti	ific hazards during fire ng	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. bustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides ( Sulfur oxides	NOx)	
Spec ods	ific extinguishing meth-	:	<ul> <li>Use extinguishing measures that are appropriate to local of cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe to so.</li> <li>Evacuate area.</li> </ul>		
	Special protective equipment:In the event of fire, wear self-contained breathing apparatfor fire-fightersUse personal protective equipment.				

#### SECTION 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 protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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SECTION	7. HANDLING AND ST	ORAGE	_
Technical measures		causing an explo Provide adequat	may accumulate and ignite suspended dust osion. e precautions, such as electrical grounding inert atmospheres.
Loca	I/Total ventilation	: If sufficient ventil ventilation.	ation is unavailable, use with local exhaust
Advice on safe handling		Handle in accord practice, based of assessment Keep container t Minimize dust ge Keep container of Keep away from Take precautions Do not eat, drink	lust. th eyes. ughly after handling. lance with good industrial hygiene and safety on the results of the workplace exposure
Hygi	ene measures	flushing systems place. When using do r	emical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. Ited clothing before re-use.
Conc	litions for safe storage	: Keep in properly Store locked up. Keep tightly clos	labeled containers.
Mate	rials to avoid	: Do not store with Strong oxidizing	agents agences and mixtures

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

#### Ingredients 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.

### SAFETY DATA SHEET



# Human Chorionic Gonadotropin Formulation (Veterinary)

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				dust collectors, ve designed in a ma work area (i.e., th	handling systems (such as exhaust ducts, essels, and processing equipment) are nner to prevent the escape of dust into the ere is no leakage from the equipment). ation is unavailable, use with local exhaust	
	Persor	nal protective equipm	ent			
Respiratory protection Filter type Hand protection Material		:	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>			
		:				
		:	Chemical-resistar	nt gloves		
	Rer	narks	:	on the concentrat time is not determ For special applic resistance to che	protect hands against chemicals depending ion specific to place of work. Breakthrough hined for the product. Change gloves often! ations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before end of workday.	
Eye protection		:	Wear the followin Safety goggles	g personal protective equipment:		
	Skin ar	nd body protection	:	Select appropriate resistance data a potential. Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).	

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	off-white
Odor	:	odorless
Odor 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	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing,



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	Flammability (liquids)			handling or other	means.
			:	No data available	)
Upper explosion flammability limited to the second		explosion limit / Upper bility limit	:	No data available	
	Lower explosion limit / Lower flammability limit		:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative density		:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition coefficient: n- octanol/water		:	No data available	)
	Autoignition temperature	:	No data available	)	
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	)
	Particle	size	:	No data available	)

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products		Oxidizing agents No hazardous decomposition products are known.



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#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### **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 fetal development : Test Type: Embryo-fetal development Species: Hamster



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		Em		e: Intraperitoneal injection city.: LOAEL: 60 mg/kg body weight etal 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.			
	<b>F-single exposure</b> lassified based on avail	able infoi	mation.			
	<b>F-repeated exposure</b> es damage to organs (0	Ovary) thi	ough prolonge	ed or repeated exposure.		
Com	ponents:					
Targe	Gonadotropin, chorionic:Target Organs:Assessment:		Ovary Causes damage to organs through prolonged or repeated exposure.			
•	ration toxicity lassified based on avail	able info	mation.			
Expe	rience with human ex	posure				
Com	ponents:					
Gona	adotropin, chorionic:					
Inhala	ation	Syr		varies s on menstruation, gynecomastia, Head- ression, Irritability, restlessness, Fatigue		
SECTION	SECTION 12. ECOLOGICAL INFORMATION					
Ecot	oxicity					
No da	ata available					
Persi	istence and degradabi	lity				

No data available

**Bioaccumulative potential** 

No data available

Mobility in soil No data available

Other adverse effects

No data available

### SAFETY DATA SHEET



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#### SECTION 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

#### **SECTION 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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

#### **NOM-002-SCT** Not regulated as a dangerous good

Not regulated as a dangerous go

### Special precautions for user

Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

#### The ingredients of this product are reported in the following inventories:

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

#### **SECTION 16. OTHER INFORMATION**

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#### 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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