

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



# **Human Chorionic Gonadotropin Formulation (Veterinary)**

Version Revision Date: SDS Number: Date of last issue: 28.09.2024  
5.0 14.04.2025 9374644-00011 Date of first issue: 27.08.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

## 1.1 Product identifier

Trade name : Human Chorionic Gonadotropin Formulation (Veterinary)

Other means of identification : Chorulon 1500 IU (A001419)  
Chorulon 5000 IU (A002377)  
CHORULON CHORIONIC GONADOTROPHIN 5000 IU  
(37225)

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
Walton Manor, Walton  
MK7 7AJ Milton Keynes - United Kingdom

Telephone : +1-908-740-4000

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

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## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567)

Reproductive toxicity, Category 1A H360Fd: May damage fertility. Suspected of damaging the unborn child.

Specific target organ toxicity - repeated exposure, Category 1 H372: Causes damage to organs through prolonged or repeated exposure.

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## 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

## Hazard pictograms



## Signal word

Hazard statements : H360Fd May damage fertility. Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.

|                          |  |
|--------------------------|--|
| Precautionary statements | <b>Prevention:</b>   |
|                          | P201 Obtain special instructions before use.                                       |
|                          | P260 Do not breathe dust.  |
|                          | P264 Wash skin thoroughly after handling.  |
|                          | P270 Do not eat, drink or smoke when using this product.                           |
|                          | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. |

## Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Hazardous components which must be listed on the label:

### Gonadotropin, chorionic

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**

## 3.2 Mixtures

## Components

| Components | Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration<br>(% w/w) |
|------------|---------------|---|----------------|--------------------------|
|------------|---------------|---|----------------|--------------------------|

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|                         |                        |   |                |
|-------------------------|------------------------|---|----------------|
| Gonadotropin, chorionic | 9002-61-3<br>232-660-2 | Repr. 1A; H360Fd<br>STOT RE 1; H372<br>(Ovary)<br><br>specific concentra-<br>tion limit<br>Repr. 1A; H360Fd<br>>= 0.01 %<br>STOT RE 1; H372<br>>= 0.01 %<br>Repr. 1A; H360Fd<br>>= 0.01 %<br>STOT RE 1; H372<br>>= 0.01 % | >= 90 - <= 100 |
|-------------------------|------------------------|---|----------------|

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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.

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).

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 in eyes, rinse well with water.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks : Contact with dust can cause mechanical irritation or drying of

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the skin.  
Dust contact with the eyes can lead to mechanical irritation.

May damage fertility. Suspected of damaging the unborn child.  
Causes damage to organs through prolonged or repeated exposure.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 6.3 Methods and material for containment and cleaning up

Methods for 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.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe 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 : 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 assessment  
Keep container tightly closed.  
Minimize dust generation and accumulation.  
Keep container closed when not in use.  
Keep away from heat and sources of ignition.

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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 environment.

### 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.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

: Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

#### Advice on common storage

: Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

|| dust of any kind 10 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (Inhalable)  
Basis: GB EH40

|| 4 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (Respirable fraction)  
Basis: GB EH40

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

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.  
Apply measures to prevent dust explosions.

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Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed 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 equipment

|                          |   |
|--------------------------|---|
| Eye/face protection      | : Wear the following personal protective equipment:<br>Safety goggles<br>Equipment should conform to BS EN 166  |
| Hand protection          |   |
| Material                 | : Chemical-resistant gloves   |
| Remarks                  | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance 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. |
| Skin and body protection | : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.<br><br>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).   |
| Respiratory protection   | : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.<br>Equipment should conform to BS EN 143   |
| Filter type              | : Particulates type (P)   |

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

|   |   |   |
|---|---|---|
| Appearance                              | : | powder  |
| Colour                                  | : | off-white   |
| Odour                                   | : | odourless   |
| Odour Threshold                         | : | No data available   |
| pH                                      | : | 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, han- |





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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 development      | : Test Type: Embryo-foetal development<br>Species: Hamster<br>Application Route: Intraperitoneal injection<br>Embryo-foetal toxicity: LOAEL: 60 mg/kg body weight<br>Result: Embryo-foetal toxicity |
| Reproductive toxicity - Assessment | : 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 through prolonged or repeated exposure.

#### Components:

##### **Gonadotropin, chorionic:**

|                             |  |
|-----------------------------|--|
| Target Organs<br>Assessment | : Ovary<br>: Causes damage to organs through prolonged or repeated exposure. |
|-----------------------------|--|

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

##### **Gonadotropin, chorionic:**

|            |   |
|------------|---|
| Inhalation | : Target Organs: ovaries<br>: Symptoms: effects on menstruation, gynecomastia, Headache, mental depression, Irritability, restlessness, Fatigue |
|------------|---|

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

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## 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

## Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

| Waste treatment methods |   |
|-------------------------|---|
| Product                 | <p>: Dispose of in accordance with local regulations.</p> <p>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</p> <p>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</p> <p>Do not dispose of waste into sewer.</p> |
| Contaminated packaging  | <p>: Empty containers should be taken to an approved waste handling site for recycling or disposal.</p> <p>If not otherwise specified: Dispose of as unused product.</p>  |

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## SECTION 14: Transport information

## 14.1 UN number

|             |   |                                   |
|-------------|---|-----------------------------------|
| <b>ADN</b>  | : | Not regulated as a dangerous good |
| <b>ADR</b>  | : | Not regulated as a dangerous good |
| <b>RID</b>  | : | Not regulated as a dangerous good |
| <b>IMDG</b> | : | Not regulated as a dangerous good |
| <b>IATA</b> | : | Not regulated as a dangerous good |

## 14.2 UN proper shipping name

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|             |   |                                   |
|-------------|---|-----------------------------------|
| <b>ADN</b>  | : | Not regulated as a dangerous good |
| <b>ADR</b>  | : | Not regulated as a dangerous good |
| <b>RID</b>  | : | Not regulated as a dangerous good |
| <b>IMDG</b> | : | Not regulated as a dangerous good |
| <b>IATA</b> | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

|             |   |                                   |
|-------------|---|-----------------------------------|
| <b>ADN</b>  | : | Not regulated as a dangerous good |
| <b>ADR</b>  | : | Not regulated as a dangerous good |
| <b>RID</b>  | : | Not regulated as a dangerous good |
| <b>IMDG</b> | : | Not regulated as a dangerous good |
| <b>IATA</b> | : | Not regulated as a dangerous good |

## 14.4 Packing group

|                         |   |                                   |
|-------------------------|---|-----------------------------------|
| <b>ADN</b>              | : | Not regulated as a dangerous good |
| <b>ADR</b>              | : | Not regulated as a dangerous good |
| <b>RID</b>              | : | Not regulated as a dangerous good |
| <b>IMDG</b>             | : | Not regulated as a dangerous good |
| <b>IATA (Cargo)</b>     | : | Not regulated as a dangerous good |
| <b>IATA (Passenger)</b> | : | Not regulated as a dangerous good |

## 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

## Relevant EU provisions transposed through retained EU law

|   |   |                |
|---|---|----------------|
| UK REACH List of restrictions (Annex 17)  | : | Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EU) No 2024/590 on substances that de-  | : | Not applicable |

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|                |                              |                              |                                 |
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plete the ozone layer  
UK REACH List of substances subject to authorisation : Not applicable  
(Annex XIV)  
GB Export and import of hazardous chemicals - Prior : Not applicable  
Informed Consent (PIC) Regulation  
Control of Major Accident Hazards Regulations 2015 (COMAH)  
Not applicable

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

|       |                  |
|-------|------------------|
| AICS  | : not determined |
| DSL   | : not determined |
| IECSC | : not determined |

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

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

### Full text of H-Statements

|        |   |
|--------|---|
| H360Fd | : May damage fertility. Suspected of damaging the unborn child.   |
| H372   | : Causes damage to organs through prolonged or repeated exposure. |

### Full text of other abbreviations

|               |  |
|---------------|--|
| Repr.         | : Reproductive toxicity                                  |
| STOT RE       | : Specific target organ toxicity - repeated exposure     |
| GB EH40       | : UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -

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European Chemicals Agency; EC-Number - European Community number; 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; 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; KECL - 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

## 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 Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Repr. 1A H360Fd  
STOT RE 1 H372

### Classification procedure:

## Calculation method

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

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.

GB / EN

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