1 – Identification of the substance or mixture and of the company / business concern

1.1 Product identifier: CRONOS - Short-life extender.

1.2 Relevant uses of the substance or mixture and improper uses: short-life extender for boar seminal plasma. Professional use.

1.3 Information concerning the supplier of the safety data sheet: medi nova sas via Caduti delle Reggiane, 32 - 42122 Reggio Emilia, Italy tel. +39 0522 926101 fax +39 0522 515137 www.medi-nova.it

1.4 Emergency telephone number: Responsibility for drafting the data sheet: info@medinova.it

2 – Identification of hazards

2.1 Classification of substance or mixture
The product is not classified as hazardous.

2.2 Label components
Classification according to EU directives 67/548/EC or 1999/45/EC:
Product classified and codified in accordance with the calculation methods required by Directive 1999/45/EC.

Product hazardousness labelling
Safety data sheet available on request for professional users.
The product does not require labelling as hazardous, in compliance with Directive 1999/45/EC.

Safety phrases: S22: do not breathe dust. S37: wear suitable gloves. S45: in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards: n.s.

3 – Composition/information on ingredients

Contents classified as hazardous for health in accordance with Directive 67/548/EEC, as amended, or in relation to which there exist recognised exposure limits: none.
Chemical nature: mixture.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard class and category codes</th>
<th>Pictogram</th>
<th>Hazard statement codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTA disodium salt</td>
<td>acute toxicity 4</td>
<td>H332</td>
<td></td>
</tr>
</tbody>
</table>

The unabridged text of risk phrases (R) and hazard statements (H) is given in point 16.
4 – First aid measures

4.1 - Description of first aid measures.

**Ingestion:** do not induce vomiting; no liquids by mouth. Nothing may be administrated to unconscious victims. Seek medical assistance.

**Contact with skin:** wash with plenty of water and soap. Seek medical assistance in the event of skin rashes.

**Contact with the eyes:** wash with plenty of water for at least 10 minutes while holding the eyelids fully open.

**Inhalation:** take the casualty outdoors, ventilate the room.

4.2 - Principal symptoms and effects, both acute and delayed

n.s.

4.3 - Indication of the possible need to seek medical attention immediately and for special treatments

In case of accident or if you feel unwell, seek medical advice immediately (show the directions for use or safety data sheet if possible). Special treatments: none

5 – Firefighting measures

5.1 Extinguishing media

- carbon dioxide, chemical powder, water spray, foam.

5.2 Special hazards deriving from the substance or mixture

the combustion fumes contain oxides of carbon, nitrogen, sulphur and sodium.

5.3 Prescriptions for fire-fighters

wear protective apparel and use breathing apparatus.

6 – Measures in case of accidental release

6.1 Personal precautions, protective devices, and emergency procedures

avoid creation of dust. Do not inhale dust.

6.2 Environmental precautions

do not spill the product on the ground or release it into water courses or drains. Alert the authorities in the event of accidental release. Collect contaminated washing water and dispose of appropriately.

6.3 – Methods and materials for clearing up spillages

collect the product using appropriate tools (brush, shovel). Store the collected material in suitable containers and dispose of it properly.

6.4 – Reference to further sections

See contents of sections 8 and 13.

7 – Handling and storage

7.1 – Safe handling precautions

ensure workplace in which dust is formed is sufficiently well ventilated. Avoid contact with skin and eyes. Open and handle containers with care.

7.2 – Conditions for safe storage, including any incompatibilities

in a cool, dry and well ventilated place protected from direct sunlight, well clear of heat sources, in the original securely sealed containers.

7.3 – Specific intended uses
diluter for boar seminal plasma.

8 - Exposure control / Personal protection

8.1 – Control parameters:

<table>
<thead>
<tr>
<th>ACGIH limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous substance</td>
</tr>
<tr>
<td>particles (insoluble or poorly soluble) not otherwise classified (PNOC)</td>
</tr>
</tbody>
</table>

8.2 – Exposure controls

Precautionary measures

Use personal protective equipment to protect the airways in the presence of insufficient ventilation or prolonged exposure. Handle the product in compliance with best hygiene and industrial practices.

**Respiratory protection**

Wear a face mask filter - FFP1 compliant with EN 143.

**Eye protection**

Spectacles with side shields compliant with EN146.

**Skin protection**

Nitrile rubber gloves: minimum life of material/gloves: > 2h, gloves minimum thickness: 0.11 mm to EN374. Check that gloves resist contact with product prior to use.

**Hygiene measures**

Do not eat, drink or smoke during use.

The notes for section 8 are given in section 16.

9 – Physical and chemical properties

9.1 – Information on fundamental physical and chemical properties

**Appearance**: solid - white powder.

**Odour**: odourless.

**Olfactory threshold**: n.s.

**pH**: 6.7 – 7.2 in utilisation concentration.

**Melting point / freezing point**: n.a.

**Initial boiling point and boiling range**: n.a.

**Flash point**: n.a.

**Evaporation rate**: n.a.

**Flammability (solids, gases)**: n.a.

**Upper / lower flammability or explosive limits**

**Vapour tension**: n.a.

**Vapour density**: n.a.

**Relative density**: 0.83 g/cm³ (25°C).

**Solubility**: completely soluble in water.

**Decomposition point**: n.s.

**Solidification temperature**: n.a.

**n-octanol/water**: n.s.
partition coefficient:  
Self-ignition temperature: n.s.  
Decomposition temperature: n.s.  
Viscosity: n.a.  
Explosive properties: n.s.  
Oxidising properties: n.s.  
9.2 – Other information n.s.

10 – Stability and reactivity

10.1 - Reactivity  
stable at conditions of use.  
10.2 – Chemical stability  
stable at conditions of use.  
10.3 - Possibility of hazardous reactions  
no data available.  
10.4 – Conditions to avoid  
do not expose to humidity.  
10.5 – Incompatible materials  
Strong oxidising agents, strong acids.  
10.6 – Hazardous decomposition products  
no data available.

11 – Toxicological information

11.1 – Information on toxicological effects  
In order to evaluate the toxicological effects deriving from exposure to the preparation account should be taken of the concentration of its individual components. 
\textit{Acute toxicity}  
EDTA disodium salt: LD_{50} oral – rat: > 2,000 mg/kg. Skin, non-irritant (rabbit, OECD TG 404). Eyes, non-irritant (rabbit, OECD TG 405). No sensitising effect on the skin and airways.

12 – Ecological information

Use the product in accordance with best practices and do not release it into the environment.  
EDTA disodium salt: toxicity to fish LC_{50} - Leuciscus idus (golden orfe): > 500 mg/l - 96 h. Toxicity to daphnia EC_{50} - Daphnia - > 100 mg/l - 24 h. Toxicity to algae EC_{50}: 10 - 100 mg/l - 72 h. Biodegradability: 590 mg/g – COD.  
12.1 - Toxicity  
no data available.  
12.2 – Persistence and degradability  
no data available.  
12.3 – Bioaccumulation potential  
no data available.  
12.4 – Mobility in soil
no data available.

12.5 – Results of PBT and vPvB assessment
no data available.

12.6 – Other adverse effects
no data available.

13 – Disposal considerations
13.1 – Waste treatment methods
Discard or recover in accordance with the requirements of statutory national legislation and local by-laws. Do not release the product or discard the packaging in the environment.

14 – Transport information
14.1 – UN number: n.a.
14.2 – UN shipment name: n.a.
14.3 – Transportation hazard classes: n.a.
14.4 – Packaging group: n.a.
14.5 – Hazards for the environment: n.a.
14.6 – Special precautions for users: n.a.
14.7 – Bulk transport pursuant to annex II of MARPOL 73/78 and IBC code: n.a.

15 – Regulatory information
15.1 – Specific health, safety and environmental regulations and legislation in relation to the substance or mixture
Italian legislative decree 81/08, consolidated law on health and safety in the workplace, as amended; Italian legislative decree 152/06, consolidated environmental law, as amended; EC Regulation 1907/06 – EC Regulation 1272/08; Italian legislative decree 14/03/03 no. 65, hazardous product labelling and packaging. Wherever applicable act in compliance with the following norms: Italian ministerial circulars 46 and 61 (aromatic amines); Italian legislative decree no. 238 of 21 September 2005 (Seveso III directive); EC Regulation no. 648/2004 (Detergents).
Chemical safety assessment: a chemical safety assessment was not carried out.

16 – Other information
This safety data sheet is based on the information currently in our possession; we assume responsibility for its completion and updating. The information is referred solely to the indicated product.
Any use of the product in a manner that conflicts with the prescriptions of this safety data sheet is the sole responsibility of the user.
This datasheet supersedes and cancels all previous editions. The information refers to the untreated product.
Key: n.s. = not supplied – n.a. = not applicable.
Notes to section 8
*: concentration at which it is deemed that workers may be continuously exposed for short periods without giving rise to irritation, chronic or irreversible harm to tissues, or reduced state of alertness.
**: limit never to be exceeded during work activities
Main bibliographic sources:
ACGIH: Threshold Limit Value.
NIOSH Registry of toxic effects of chemical substances.
I.N.R.S. Fiche toxicologique.

Text of R Phrases appearing above:  R20: harmful by inhalation.

Text of hazard statements appearing above:  H332: harmful if inhaled.