

MATERIAL SAFETY DATA SHEET

Date of card preparation: 23.02.2004 Date of card update: 07.11.2012

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

1.1. Product identifier

CORMAY SERUM HN (Cat No 5-172)

CORMAY SERUM HN is lyophilized serum of human origin designed for routine quality control of inorganic, organic and enzymatic constituents being generally within normal range.

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

Laboratory reagents. For professional use only.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

PZ CORMAY S.A. ul. Wiosenna 22 05-092 ŁOMIANKI

phone/fax. (0-22) 751 79 10, 751 79 14

between: 8 am and 4 pm **e-mail:** msds@cormay.pl

1.4. Emergency telephone number

Emergency telephone number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture does not meet the criteria for classification in accordance with Directive 1999/45/EC. This serum has been found non reactive for the HbsAg, antibody to HIV and HCV. However this material should be handled as thought capable of transmitting infectious disease.

2.2. Label elements

The mixture do not require to be labeled as hazardous.

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2.3. Other hazards

This mixture do not meet the criteria for PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

SERUM HN

Do not contain substances classified as hazardous.

SECTION 4: First aid measures

4.1. Description of first aid measures

After exposure by respiratory passages: fresh air. Call in physician.

After skin contamination: wash off with plenty of water. Take off the contaminated clothing.

After contamination of eyes: rinse out with plenty of water for at least 15 minutes with the eyelid held wide open.

After consumption: give the sufferer a large amount of water to drink. If the sufferer feels unwell, consult a doctor.

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

No data available.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The mixture is inflammable and do not maintain burning.

In case of fire use extinguishing media suitable for materials stored in immediate vicinity. Water, CO₂, dry powder can be used as the extinguish medium.

No data about do not recommended extinguishing media.

5.2. Special hazards arising from the substance or mixture

There is no data about hazardous substances which may occur during fire thermal decomposition of the mixture.

5.3. Advice for firefighters

The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air (in the case of large fire).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Avoid contamination with the preparation.

Notify the neighbourhood of the breakdown.

Do not inhale vapours/ aerosols.

Secure the flow of fresh air into closed rooms.

Avoid contact of the mixture with skin and eyes.

Remove contaminated clothing and wash before reuse.

6.1.2. For emergency responders

Wear protective clothing and rubber gloves.

6.2. Environmental precautions

Dilute with plenty of water. Avoid entering the product into drains, surface water and groundwater, reservoirs and waterways.

6.3. Methods and material for containment and cleaning up

Collect small quantities with the use of an absorbing agent (sand, diatomite, acid binders, universal binders, sawdust), rinse with large amount of water if necessary. Provide material collected for recycling.

6.4. Reference to other sections

Use the control measures and personal protective equipment described in section 8 of this card. The released material to follow the rules described in section 13 of this MSDS - Disposal consideration.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

While working with the preparation, one should use appropriate means of personal protection (see pt. 8). Avoid contact of the preparation with skin and eyes, as well as inhaling its mists.

Secure efficient local ventilation.

Industrial hygiene:

You must not have meals, drink, or smoke tobacco while working with the preparation, except in places designed for that purpose. Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream.

7.2. Conditions for safe storage, including any incompatibilities

In accordance with the norms generally accepted for chemicals in laboratories.

Store in original manufacturer containers.

Store in closed containers at temperatures compatible with the information provided on the label.

Protect from the light.

Protect containers from damage.

Keep away from food and animal feed.

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains materials with occupational exposure limit values at workplace.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available.

8.2.2. Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

a) Eye / Face protection:

Avoid direct contact of the product with eyes use glasses.

b) skin protection:

- hand protection:

Avoid direct contact of the product with skin, immediately take off clothes soiled with the mixture and wash contaminated skin with soapy water, use personal protective, clothing and gloves.

c) Respiratory protection:

Apply in rooms with efficiently working ventilation, avoid inhaling product mists, respiratory tract-protective agents are not required.

d) Thermal hazards:

Product is not thermal hazardous.

8.2.3. Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	<u>SERUM HN</u>
a) Appearance :The physical state :	liophilised - solid
-Colour:	pale yellow
b) Odour:	light
c) Odour threshold:	no data available
d) pH:	7.55-7.65
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point:	not applicable
h) Evaporation rate:	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits :	no data available
k) Vapour pressure :	no data available
1) Vapour density:	no data available
m) Relative density:	no data available
n) Solubility(ies)	miscible with water
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature:	no data available
r) Viscosity:	no data available
s) Explosive properties:	no data available
t) Oxidising properties :	no data available

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PZ CORMAY S.A Prepared: M. Bancarzewska Approved: M. Dęga Identification number: MSDS/SERUMHN

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9.2. Other information

No other relevant information.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable in conditions provided by the manufacturer.

10.2. Chemical stability

The product is stable when normal handling in accordance with conditions provided by the manufacturer.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

The product is stable in conditions provided by the manufacturer.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Hazardous decomposition products are not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Quantitative data on the toxicity of this mixture are not available. The mixture toxicity evaluation is based on evaluation of the toxicity of the particular components.

\mathbf{a}) acut	e tox	icity:
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No data available.

b) irritation:

No data available.

c) corrosivity:

No data available.

d) sensitisation:

No data available.

e) repeated dose toxicity:

No data available.

f) carcinogenicity:

No data available.

${\bf g)} \ mutagenicity:$

No data available.

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h) toxicity for reproduction:

No data available.

Toxic problems should not be expected if you use and apply the product appropriately.

The product should be handled with the care usual when dealing with chemicals

SECTION 12: Ecological information

12.1. Toxicity

Quantitative data on the ecological effect of this mixture are not available. Ecological problems should not be expected if you use and apply the mixture appropriately.

The mixture toxicity evaluation is based on evaluation of the toxicity of particular components.

12.2.	Persistence	and d	egrada	bility

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

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste. Product contains documented components of human material that's why waste should be autoclaving in temperature 121°C for 20 minutes, then removed in accordance with official regulations.

Packing:

Remove in accordance with official regulations. Treat contaminated packages in the same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.

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SECTION 14: Transport information

14.1. UN number

Do not subordinate to transport regulations.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

No limits.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Material Safety Data Sheet was prepared in accordance with:

The EC Directive Nr 1999/45/EG, the EC Directive 67/548 EEC, Regulation (EC) No 1907/2006 of European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Regulation (EC) No 1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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See Polish regulations.

15.2. Chemical safety assessment

Chemical safety assessment has been no carried out for the product.

SECTION 16: Other information

The foregoing information is based on the present state of our knowledge. It characterizes the mixture with respect to the appropriate safety measures. They do not guarantee the properties of the mixture.

We do not take responsibility for damage and losses that may result from inappropriate use of the mixture.

Reason of changes:

General update.

MSDS has been changed in accordance with guidelines of the Commission Regulation (EU) No 453/2010.