

Release : 2.3
Reviewed on : 04.01.2012
Replaces the version of : 15.12.2010
Date of Print : 18.11.2013
Product : Beromun®, liquid, (bulk)

1. Identification of the substance/mixture and of the company/undertaking

Designation : **Beromun®, liquid, (bulk)**

Synonyms : Active ingredient: Tasonermin
Beromun®, Solution for injection

Identified uses : Solution for production of finished medicinal products.

Company : Boehringer Ing. Pharma GmbH & Co.KG
Binger Str. 173
55216 Ingelheim am Rhein

Telephone : +49800/7790900
Telefax number : +496132/729999
E-mail address : gefahr@boehringer-ingelheim.com

Information providing division : Quality & Environmental Health & Safety

Emergency information : (+49) (0)61 32 / 77 23 22 (24 h)

2. Hazards Identification

Classification according to Regulation (EC) No. 1272/2008:

This product is a non-hazardous solution of single components and need not be labelled according to EC-Directive 1999/45/EC, as amended.

3. Composition/Information on Ingredients

Hazardous ingredients

Chemical name	Classification	GHS classification	Concentration
Polypeptide (Cytokine), recombinant Protein	Xn; R63	Category 1A, H360Df	<= 0,022%
Molecular formula:	C778-H1225-N215-O231-S2	CAS-No.	94948-59-1
Molecular weight:	17350,5		

Chemical name	Classification	GHS classification	Concentration
Non-hazardous galenic excipients			>= 98,78%

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4. First-aid Measures

- General advice : Remove from exposure, lie down. Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.
- Eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- Skin contact : Wash off thoroughly with ample water. Seek medical attention.
- Inhalation : Keep patient calm, remove to fresh air, seek medical attention.
- Ingestion : Rinse mouth immediately and then drink plenty of water, seek medical attention.

Notes to physician

- Treatment : Observe the summary of product characteristics of proprietary medicinal products
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5. Fire-fighting Measures

- Suitable extinguishing media : Use extinguishing measures to suit surroundings., Water, Dry chemical, Foam, carbon dioxide
- Hazards during fire-fighting : In case of fire and/or explosion do not breathe fumes. Can be released in case of fire:, Carbon oxides, nitrogen oxides, Sulphur oxides
- Protective equipment for fire-fighting : Wear self-contained breathing apparatus and chemical-protective clothing.
- Further information : Collect separately contaminated extinguishing water, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
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6. Accidental Release Measures

- Personal precautions : Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
- Environmental precautions : Do not discharge into drains/surface waters/groundwater.
- Methods for cleaning-up or taking-up : For large amounts: Pump off product. For residues: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust). Pack in tightly closed containers for disposal.
- Additional information : High risk of slipping due to leakage/spillage of product.
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7. Handling and Storage

Handling

- Advice on safe handling : Ensure thorough ventilation of stores and work areas. Do not open until use.
- Hints for protection against fire and explosion : No hazards which require special first aid measures.
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Hygienic measures : General safety and hygiene measures. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

Storage

Requirements for storage rooms and vessels : Protect from heat and direct sunlight. Keep container tightly closed. Jointless smooth floor
 Advice on storage compatibility : Keep away from food, drink and animal feedingstuffs. Advice on Segregation
 Storage class according to VCI : 12 Non Combustible Liquids

8. Exposure controls/personal protections

Exposure controls

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.
 Hand protection : Chemical safety glove category III (EN 374). Glove material: Nitrile rubber, Layer thickness: 0.43 mm (f.e. Camatril® green, Article No.732, Company KCL). Resistance (permeability): Level 6 (480 min).
 Eye protection : Safety glasses with side-shields (frame goggles) (EN 166)
 Body protection : Laboratory: laboratory coat; factory: disposable Overall.
 Additional information : Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warranty given by the manufacturer for the safe function.
 General protective measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. Physical and Chemical Properties

Form : liquid
 Colour : No data available.
 Odour : No data available.
 Odour threshold : No data available.
 pH value : No data available.
 Melting point/ -range : No data available.
 Boiling point/boiling range : No data available.
 Flash point : not applicable
 Ignition temperature : not applicable
 Evaporation rate : No data available.

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Flammability : does not ignite
Lower explosion limit : not applicable
Upper explosion limit : not applicable
Vapour pressure : No data available.
Relative vapour density : No data available.
Relative density : No data available.
Solubility in water : No data available.
Miscibility with water : miscible in all proportions

Partitioning coefficient n-octanol/water (log Pow) : No data available.
Thermal decomposition : No data available.
Viscosity, dynamic : No data available.
Explosiveness : No data available.
Peroxides : No data available.

Further information

Density : No data available.

10. Stability and Reactivity

Hazardous reactions : Vapours are flammable.
Conditions to avoid : No data available.
Substances to avoid : No data available.

11. Toxicological Information

Acute oral toxicity : No data available.
Acute inhalation toxicity : No data available.
Acute dermal toxicity : No data available.
Acute toxicity (other route) : ALD (Approximate lethal dose) intravenous = 10 mg/kg rat(female)
The values mentioned are those of the active ingredient.
ALD (Approximate lethal dose) intravenous > 10 mg/kg rat(male)
The values mentioned are those of the active ingredient.

Skin irritation : No data available.
Eye irritation : No data available.

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Sensitization : No data available.

Genetic toxicity in vitro : Ames-test
 Salmonella typhimurium
 Result: negative
 The values mentioned are those of the active ingredient.

Genetic toxicity in vivo : Micronucleus assay
 mouse
 Result: negative
 The values mentioned are those of the active ingredient.
 Unscheduled DNA synthesis Result: negative
 The values mentioned are those of the active ingredient.

Carcinogenicity : No data available.

Reproductive toxicity : No data available.

Teratogenicity : No data available.

Assessment of mutagenicity : Mammalian Chromosome Aberration Test: negative, The values mentioned are those of the active ingredient.

Assessment of mutagenicity : Micronucleustest: negative, The values mentioned are those of the active ingredient.

Further information : Females of childbearing age should not come into contact with the product.

12. Ecological information

Ecotoxicity

Toxicity to fish : No data available.

Toxicity to daphnia : No data available.

Toxicity to algae : No data available.

Toxicity to bacteria : No data available.

Chronic toxicity to fish : No data available.

Chronic toxicity to aquatic invertebrates : No data available.

Persistence and degradability

Biological degradation : No data available.

Transport between environmental compartments : No data available.

Bioaccumulation : No data available.

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PBT and vPvB assessment : No data available.

13. Disposal Considerations

Product : Dispose of in accordance with local regulations.
Contaminated packaging : Packs that cannot be cleaned should be disposed of in the same manner as the contents. Uncontaminated packaging can be recycled.

14. Transport Information

Further information : Not classified as dangerous in the meaning of transport regulations. For the internal transport: Use only released containers. Use only tightly closed containers. Protect container against fall down. The container must be correctly labelled.

15. Regulatory information

National legislation/regulations

Water hazard class : VVWWS
WGK 2 water endangering
Annex 4 VwVwS (Germany) dated Mai, 17 th 1999

16. Other particulars

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.