


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

- **Product identifier**
- **Trade name** RUMECOX
- **Article number:** 5727720000
- **Relevant identified uses of the substance or mixture and uses advised against** None.
- **Application of the substance / the mixture** Veterinary medicine active ingredients.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
**SUPPLIER:**  
Biesterfeld International GmbH  
Ferdinandstr. 41  
D-20095 Hamburg  
Germany
- **Informing department:**  
Dept. QSHE, Mr. P. Tentler, Phone: +49 2224981155; e-mail: sdb@biesterfeld.com
- **Emergency telephone number:**  
GIZ-Nord, Göttingen, Germany  
Member of EPECS Network  
EMERGENCY NUMBER : +49 551 19240

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Acute Tox. 4 H302 Harmful if swallowed.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xn; Harmful  
R22: Harmful if swallowed.
- **Information concerning particular hazards for human and environment:** void
- **Classification system:**  
The classification is in line with current EU lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Monensin
- **Hazard statements**  
H302 Harmful if swallowed.
- **Precautionary statements**  
P261 Avoid breathing dust.  
P262 Do not get in eyes, on skin, or on clothing.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture consisting of the following components with harmless additives.

· **Dangerous components:**

CAS: 17090-79-8	Monensin	10-25%
EINECS: 241-154-0	 T R25;  N R50	
	 Acute Tox. 3, H301;  Aquatic Acute 1, H400	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information**  
Personal protection for the First Aider.  
Remove contaminated clothing.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
If unconscious, place in recovery position and seek medical advice.
- **After inhalation**  
Take affected persons into the open air and position comfortably  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact**  
Remove contaminated clothing.  
Wash off with plenty of water.  
Or better;  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult Oculist.
- **After swallowing**  
Rinse out mouth and then drink (two glasses at the most) water.  
Do not induce vomiting.  
Call for medical help.  
Turn a vomiting person on the side if lying on the back.  
If vomiting occurs, the head should be kept low.
- **Information for doctor** The toxicological properties of this material have not been fully investigated.
- **Most important symptoms and effects, both acute and delayed**  
Irritations after contact with eyes, skin and mucous membrane.  
After inhalation of dust:  
Coughing  
Breathing difficulty (dyspnea)  
Irritating to respiratory tract.  
Possible other symptoms are currently not known.
- **Danger**  
Slightly irritation on eyes skin and mucous membrane.  
Inhalation of the dust should be avoided as even inert dusts may impair respiratory organ functions.

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There are at present no indications to further acute dangers for the health.  
Further health dangers cannot be excluded however.

- **Indication of any immediate medical attention and special treatment needed**  
Elemental assistance.  
Decontamination.  
Treat symptomatically and supportively.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water fog. Fight larger fires with water fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**  
Formation of poisonous gases during heating or in fires.  
Can be released in case of fire:  
Carbon monoxide and carbon dioxide.  
Dust explosion hazard!
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Use breathing protection against the effects of fumes/dust/aerosol.  
Keep away from sources of ignition.  
Avoid causing dust.  
Ensure adequate ventilation  
Bring persons out of danger.
- **Environmental precautions:**  
Do not allow to enter sewage systems, water bodies, groundwater or soil.  
Inform respective authorities in case large quantities of the product reach water, sewage system or soil.
- **Methods and material for containment and cleaning up:**  
Avoid causing dust.  
Ensure adequate ventilation.  
Collect mechanically.  
Clean up affected area.  
May be recycled or disposed of in appropriate containers  
Dispose of contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

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## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
  - Keep containers tightly closed.
  - Prevent formation of dust.
  - Ensure good ventilation/exhaustion at the workplace.
- **Hygiene measures:**
  - Keep away from foodstuffs, beverages and feedingsstuff.
  - Instantly remove any soiled and impregnated garments.
  - Wash hands during breaks and at the end of the work.
  - Do not inhale dust / smoke / mist.
  - Avoid contact with the eyes and skin.
  - Do not eat, drink or smoke while working.
- **Information about protection against explosions and fires:**
  - Substance/product is flammable.
  - Dust can combine with air to form an explosive mixture.
  - Fire fighting equipment must be available.
  - Protect from heat.
  - Avoid deposition of dust.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Store in original container if possible.
  - Prevent any penetration into the ground.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Do not store together with materials/products which can form dangerous chemical reactions.
  - See point 10: stability and reactivity.
- **Further information about storage conditions:**
  - Store in a dry place. Store in a closed container.
  - Protect from heat and direct sunlight.
  - Store container in a well ventilated position.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs** No data available
- **PNECs** No data available
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective measures:**
  - The usual precautionary measures should be adhered to in handling the chemicals.
- **Breathing equipment:**
  - If used in closed systems or well-ventilated area breathing protection is not necessary.

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Required when dusts are generated.



In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter P2.

or

Filter P3.

· **Protection of hands:**



Chemical-protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Check protective gloves prior to each use for their proper condition.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

· **Material of gloves**

No material can be recommended.

Experience says that polychloroprene, nitrile rubber, butylrubber, fluoro-caoutchouc, and polyvinyl chloride are suitable as glove materials for protection against undissolved solids.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

ASK THE MANUFACTURER FOR SUITABLE MATERIAL.

· **Penetration time of glove material**

At the permeation time no data are present.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

· **Eye protection:**



Safety glasses with side protection.

· **Body protection:**

Protective work clothing.

Apron

Boots

or

Suitable chemical protection suit.

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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.

**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Granules
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Colour:	Brown
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· Smell:	Odourless
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· pH-value:	No data available
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· **Change in condition**

Melting point/Melting range:	No data available
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Boiling point/Boiling range:	No data available
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· Flash point:	No data available
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· Ignition temperature:	No data available
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· Decomposition temperature:	No data available
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· Danger of explosion:	Product does not present an explosion hazard. Dust explosion hazard!
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· **Critical values for explosion:**

Lower:	No data available
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Upper:	No data available
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· Vapour pressure:	No data available
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· Density	No data available
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· Vapour density	Not applicable.
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· **Solubility in / Miscibility with**

Water:	Insoluble
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· Partition coefficient (n-octanol/water):	No data available
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· **Viscosity:**

dynamic:	Not applicable.
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kinematic:	Not applicable.
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· Other information	No further relevant information available.
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**10 Stability and reactivity**· **Reactivity**· **Chemical stability**· **Conditions to be avoided:**

No decomposition if used and stored according to specifications.

To avoid thermal decomposition do not overheat.

Flames, sparks, electrostatic charges.

· **Possibility of hazardous reactions**

The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion.

Reacts with strong oxidizing agents.

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Can be released in case of fire:  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**17090-79-8 Monensin**

Oral	LD50	100 mg/kg (rodent - rat) (Toxnet)
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- **Primary irritant effect:**
- **on the skin:** Results from bioassays are not available (irritation possible).
- **on the eye:** Results from bioassays are not available (irritation possible).
- **Sensitization:**  
Results from bioassays are not available.  
No sensitizing effect known.
- **Subacute to chronic toxicity:**
- **mutagenic activity:**  
No data available
- **carcinogenic activity:**  
No data available
- **teratogenic activity:**  
No data available
- **fertility impairment:**  
No data available
- **Additional toxicological information:**  
Harmful if swallowed.  
Further hazardous properties cannot be excluded.  
The substance / product should be handled with the care usual when dealing with chemicals.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:**

- **acute:**

**17090-79-8 Monensin**

EC50 / 48h	10,7 mg/l (DAPHNIA TOXICITY: (daphnia magna)) (Lit.)
EC50 / 72h	0,98 mg/l (ALGAL TOXICITY: (selenastrum capric.)) (Lit.)
LC50 / 96h	9 mg/l (FISH TOXICITY: (onchorhynchus mykiss)) (Lit.)

- **chronic:** No data available
- **Terrestrial toxicity:** No data available
- **Persistence and degradability** No data available
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No data available
- **Mobility in soil** No data available
- **Additional ecological information:**
- **AOX-indication:** The product does not contribute to the AOX value of the waste water.
- **General notes:** Do not allow product to reach ground water, water bodies, sewage system or soil.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.
- **European waste catalogue**  
A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. In agreement with the waste code must be determined regional waste disposal authority or company.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· <b>UN-Number</b>	
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	-

**15 Regulatory information**

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

These statements solely describe the safety demands of the product and base according to the best of our belief on our today's knowledge. They, however, do not represent any assurance towards properties of the product within the sense of liability, resp. guaranty regulations and thus are given without any obligation.

- **Relevant phrases**  
H301 Toxic if swallowed.

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H400 Very toxic to aquatic life.

R25 Toxic if swallowed.

R50 Very toxic to aquatic organisms.

- **Department issuing data specification sheet:** Dept. QSHE
- **Contact:** Mr. Dr. Hollitzer, Fon: +49 4032008284; mailto: [sdb@biesterfeld.com](mailto:sdb@biesterfeld.com)
- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Lit.: Literatur

- **Sources**

Information of distributor.

European chemical Substances Information System

<http://esis.jrc.ec.europa.eu/>

Environmental Health and Toxicology National Library of Medicine TOXNET.

<http://sis.nlm.nih.gov/enviro.html>

U.S. EPA ECOTOX Database

[http://cfpub.epa.gov/ecotox/quick\\_query.htm](http://cfpub.epa.gov/ecotox/quick_query.htm)