

**KOKCISAN 120G**Version 1  
Print Date 27.02.2008

Update 27.02.2008

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Identification of the substance or preparation**Trade name : **KOKCISAN 120G**  
Feed additive.**Company/Undertaking Identification**Company : KRKA, d.d., Novo mesto  
Šmarješka cesta 6  
8501 Novo mesto  
Telephone : +386073312111  
Telefax : +386073321537  
E-mail address : [info@krka.biz](mailto:info@krka.biz)  
Emergency telephone : +386073312111**2. HAZARDS IDENTIFICATION****Classification**Xn ; R22  
Xi ; R36/38  
; R43**Risk advice to man and the environment**

Harmful if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact.

**Potential Health Effects**

Inhalation : Product dust may be irritating to eyes, skin and respiratory system.

*Other information:* By inhalation, ingestion or in contact with skin or eyes allergic reaction can appear and some unspecific symptoms such as headache, nausea and weakness.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

| Chemical name of the substance | EC-No. | CAS-No.    | Index-No. | Concentration [%] | Symbol(s) | R-phrase(s)    |
|--------------------------------|--------|------------|-----------|-------------------|-----------|----------------|
| Salinomycin, Sodium Salt       |        | 55721-31-8 |           | ~ 12,00           | T         | R25 R36/38 R43 |

**4. FIRST AID MEASURES**General advice : Move out of dangerous area.  
Take off all contaminated clothing immediately.  
If you feel unwell, seek medical advice (show the label where possible).  
  
Inhalation : Remove to fresh air.  
Consult a physician if necessary.  
  
Skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Take off contaminated clothing and shoes immediately.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.

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- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Consult a physician.
- Ingestion : Rinse mouth.  
Do not induce vomiting without medical advice.  
Consult a physician.

**Notes to physician**

- Treatment : Treat symptomatically.

*Other information:* Persons developing hypersensitivity reactions must receive immediate medical attention.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Special exposure hazards in a fire : Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Further Information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire and/or explosion do not breathe fumes.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Avoid contact with skin, eyes and clothing.  
Avoid dust formation.  
Avoid breathing dust.  
Use personal protective equipment.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
- Methods for cleaning up : Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Pick up and arrange disposal without creating dust.  
Clean contaminated surface thoroughly.

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Additional advice : Treat recovered material as described in the section "Disposal considerations".

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.  
Always replace cap after use.  
Wear personal protective equipment.  
Do not breathe vapours/dust.  
Use only according to our recommendations.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.  
Use only in area provided with appropriate exhaust ventilation.

**Storage**

Advice on common storage : Protect from light, moisture and damage.

Storage temperature : < 30 °C

Storage conditions : Keep tightly closed in a dry, cool and well-ventilated place.  
Store in original container.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Limit Values**

| Components               | CAS-No.    | Exposure Limit Values |
|--------------------------|------------|-----------------------|
| Salinomycin, Sodium Salt | 55721-31-8 |                       |

**Exposure controls**

Local exhaust

**Occupational exposure controls**

Respiratory protection : Respirator must be worn if exposed to dust.

Hand protection : Protective gloves  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
Gloves must be inspected prior to use.  
Skin should be washed after contact.

Eye protection : Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Protective suit  
Safety shoes  
Remove and wash contaminated clothing before re-use.

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General hygiene considerations : Avoid contact with skin, eyes and clothing.  
Do not breathe dust.  
When using do not eat, drink or smoke.  
Wash hands and face before breaks and immediately after handling the product.  
Regular cleaning of equipment, work area and clothing.  
Handle in accordance with good industrial hygiene and safety practice.

Protective measures : Provide adequate ventilation.  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Avoid repeated exposure.

*Other information:* Respiratory protection: Respirator with a particle filter P2.

**9. PHYSICAL AND CHEMICAL PROPERTIES****General Information (appearance, odour)**

Colour : tan

Odour : characteristic

*Other information:* Light brown, fine granulate.

**Important health safety and environmental information**

pH : 7 - 10  
at 10 g/l

Bulk density : 600 - 800 kg/m<sup>3</sup>

Water solubility : Note: practically insoluble

*Other information:* Loss on drying: < 6 %.

**10. STABILITY AND REACTIVITY**

Conditions to avoid : Exposure to light.  
Heating in air.  
Exposure to air or moisture over prolonged periods.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Carbon oxides

Thermal decomposition : Note: To avoid thermal decomposition, do not overheat.

Hazardous reactions : Heating can release hazardous gases.  
Note: Stable under recommended storage conditions.

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**11. TOXICOLOGICAL INFORMATION**Acute oral toxicity : LD50 rat male  
Dose: 269 mg/kgAcute oral toxicity : LD50 rat female  
Dose: 289 mg/kg

Information for 12 % granulate. The preparation is very toxic for all hoofed mammals.

Sensitisation : Remarks: May cause sensitization by skin contact.

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

**Experience with human exposure**

Salinomycin sodium is not used in human medicine therefore lethal dose for human is not known.

**12. ECOLOGICAL INFORMATION**

Product is readily degradable in soil.

**Ecotoxicity effects**Acute Fish toxicity : LC50 Rainbow trout  
Dose: 1,66 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates. : EC50 Daphnia  
Dose: 13,3 mg/l  
Exposure time: 48 hToxicity to algae : EC50 Selenastrum capricornutum  
Dose: 3,01 mg/l  
Exposure time: 72 h**Further information on ecology**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecological data for preparation with 23.4% salinomycin sodium. LC50 (Eisenia foetida, 14 days) = 71 mg/kg.

**13. DISPOSAL CONSIDERATIONS**Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.  
The product should not be allowed to enter drains, water courses or the soil.

Contaminated : Dispose of as unused product.

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packaging                      Empty containers can be landfilled, when in accordance with the local regulations.

*Other information:* Product wastes should be disposed of in accordance with the relevant European norms.

**14. TRANSPORT INFORMATION**

Not dangerous goods in the meaning of RID/ADR, ADNR, IMDG-Code, ICAO/IATA-DGR.

**15. REGULATORY INFORMATION****EC Label**

1999/45/EC

Hazardous components which must be listed on the label:

- Salinomycin, Sodium Salt

**Classification and labelling**

Symbol(s)                      : Xn                      Harmful

Xn



Harmful

R-phrase(s)                      : R22      Harmful if swallowed.  
R36/38    Irritating to eyes and skin.  
R43      May cause sensitization by skin contact.

S-phrase(s)                      : S20/21    When using do not eat, drink or smoke.  
S22      Do not breathe dust.  
S24/25    Avoid contact with skin and eyes.  
S36/37    Wear suitable protective clothing and gloves.  
S46      If swallowed, seek medical advice immediately and show this container or label.

Further Information            : The product is classified and labelled in accordance with Directive 1999/45/EC.

**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge,

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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.

This safety data sheet only contains information relating to safety and does not replace any product information or product specification.  
Take notice of the directions of use on the label.

### Full text of R-phrases referred to under sections 2 and 3

- R22 Harmful if swallowed.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitization by skin contact.
- R25 Toxic if swallowed.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitization by skin contact.

*Changes since the last version will be highlighted in the margin. This version replaces all previous versions.*

Homogenize the product in the animal food, do not feed horses and other equids, do not give together with Tiamulin.