

1 Identification of the substance/mixture and of the company/undertaking· **Product identifier**· Trade name **Flavo-80**· **Article number:** 5291290000· **CAS Number:**

11015-37-5

· **EC number:**

234-246-7

· **Relevant identified uses of the substance or mixture and uses advised against** None.· **Application of the substance / the preparation** Pharma Active ingredients· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:****S U P P L I E R:**

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

E M E R G E N C Y N U M B E R : +49 551 19240

2 Hazards identification· **Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Sensitising

R43: May cause sensitisation by skin contact.

· **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 substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS07

· **Signal word** Warning· **Hazard statements**

H317 May cause an allergic skin reaction.

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· Precautionary statements

- P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards**· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients**· Chemical characterization: Substances**

- **CAS No. Designation:**
11015-37-5 Bambermycin
- **Identification number(s):**
- **EC number:** 234-246-7

4 First aid measures**· Description of first aid measures****· General information**

- Personal protection for the First Aider.
Instantly remove any clothing soiled by the product.
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

- Immediately remove contaminated clothing.
Immediately wash with water and rinse thoroughly.
Or better;
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
After wide skin contact seek medical treatment.

· 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.
Consult doctor if feeling unwell.

- 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**

- After skin contact:
Allergic reactions
Possible other symptoms are currently not known.

· Danger

- After skin contact allergic symptoms possible.
There are at present no indications to further acute dangers for the health.

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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**

CO₂, 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 toxic and corrosive gases during heating or in case of fire.

Can be released in case of fire:

Carbon monoxide and carbon dioxide.

Nitrogen oxides (NO_x)

Phosphorous Oxides (P_xO_y)

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.

Damp down gases/fumes/haze with water spray jet.

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:**

Ensure adequate ventilation.

Avoid causing dust.

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 feedingstuff.
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 cool location.
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 cool, dry conditions in well closed containers.
Protect from heat and direct sunlight.
Store container in a well ventilated position.
- **Recommended storage temperature:** +5 °C - < +30 °C
- **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:** Not required.
- **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.

· **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.

ASK THE MANUFACTURER FOR SUITABLE MATERIAL.

· **Penetration time of glove material**

At the permeation time no data are present.

The penetration of the glove material is impossible with dry and not gassing solids.

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:**

Wear dust tight protective clothing.

Apron

Boots

or

Suitable chemical protection suit.

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.

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Powder
Colour:	Brown
Smell:	characteristic

· pH-value: No data available

· Change in condition

Melting point/Melting range:	No data available
Boiling point/Boiling range:	No data available

· Flash point: >100 °C

· Ignition temperature: No data available

· Decomposition temperature: 392 °C

· Danger of explosion: Product does not present an explosion hazard.
Dust explosion hazard!

· Critical values for explosion:

Lower:	No data available
Upper:	No data available

· Vapour pressure: Not applicable.

· Vapour Density (air=1): No data available

· Density: No data available

· Settled apparent density at 20 °C: 400-500 kg/m³

· Vapour density: Not applicable.

· Solubility in / Miscibility with

Water at 20 °C: 250 g/l

· Partition coefficient (n-octanol/water): -11,72 log POW

· Viscosity:

dynamic:	Not applicable.
kinematic:	Not applicable.

· Other information: No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

· Conditions to be avoided:

No decomposition if used and stored according to specifications.

Flames, sparks, electrostatic charges.

· Decomposition will begin at: Decomposition at: 392 °C

· 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.

· Conditions to avoid: No further relevant information available.

· Incompatible materials: Strong oxidizing agents

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- **Hazardous decomposition products:**
Poisonous gases/vapours
Corrosive gases/vapours
Inflammable gases/vapours
Can be released in case of fire:
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Phosphorus oxides (e.g. P₂O₅)

11 Toxicological information

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

LD/LC50 values that are relevant for classification:

Oral	LD50	>2000 mg/kg (rodent - rat) (Lit.)
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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.
Sensitization possible by skin contact.
- **Subacute to chronic toxicity:**
carcinogenic activity:
IARC (International Agency for Research on Cancer)
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
mutagenic activity:
No data available
teratogenic activity:
No data available
fertility impairment:
No data available
- **Additional toxicological information:**
May cause sensitisation by skin contact.
The toxicological properties of this material have not been fully investigated.
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:** No data available
- **Terrestrial toxicity:** No data available
- **Persistence and degradability** biodegradable
- **Degree of elimination:** DT₅₀ (soil) = 21 days
- **Behaviour in environmental systems:**
- **Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **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:**
At present there are no ecotoxicological assessments.

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Do not allow product to reach ground water, water bodies, sewage system or soil.

- **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

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

15 Regulatory information

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

16 Other information

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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.

- **Department issuing data specification sheet:** Dept. QSHE
- **Contact:** Mr. Dr. Hollitzer, Fon: +49 4032008284; 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
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/>
ECHA Classification and Labelling
echa.europa.eu/de/view-article/-/journal content/07005f81-abf1-4081-973b-6c7c526c39df
MSDS of different manufacturers.