

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

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

#### 1.1 Product Identifier

**Article number**

TN 1312

**Trade name**

Palcam Selective Supplement

#### 1.2 Relevant Identified uses of the substance or mixture and uses advised against

**Intended use**

Used to inhibit accompanying flora during the isolation of *Listeria monocytogenes* on Palcam Agar (Base) (TN1209).

**Uses advised against:** -

#### 1.3 Details of the supplier of the Safety data sheet

**Name of supplier**

sifin diagnostics gmbh  
Berliner Allee 317-321  
13088 Berlin, Germany

**Contact for technical information**

Telefon: +49 (0)30 927030-0 (Head of Department Culture Media)  
Telefax: +49 (0)30 927030-30  
E-Mail: [info@sifin.de](mailto:info@sifin.de)

**E-Mail, competent person**

[msds@conceptec.de](mailto:msds@conceptec.de)

#### 1.4 Emergency telephone number

Phone: +49 (0)30-927030-0, Safety Officer for Medical Devices  
Mo. – Th. 7.30 a.m. - 4.15 p.m., Fr. 7.30 a.m. - 3.00 p.m.

### SECTION 2: Hazards Identification

#### 2.1 Classification of the mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Respiratory sensitization, Category 1, H334

Acute Toxicity, Category 4, H302



Skin irritation, Category 2, H315

Skin sensitization, Category 1, H317

Eye irritation, Category 2, H319

**Classification according to Directive 1999/45/EG (DPD)**

Xn, Harmful, R22

R42/43

#### 2.2 Label elements

**Labelling according to Regulation (EC) 1272/2008 (CLP)**

**Hazard elements for labelling, contains** Ceftazidime, Polymyxine B-sulfate, Acriflavine

**Hazard pictogramme(s)**



**Signal word**

Danger

**Hazard statements (H-statement)**

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

	H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Precautionary Statements (P-statement)</b>	P261: Avoid breathing dust. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Additional labelling elements</b>	None

### Labelling according to Directive 1999/45/EG (DPD)

<b>Hazard elements for labelling, contains</b>	Ceftazidime, Polymyxin B-sulfate
<b>Hazard symbols</b>	
<b>Risk phrases (R-phrases)</b>	R22: Harmful if swallowed. R42/43: May cause sensitization by inhalation and skin contact
<b>Safety phrases (S-phrases)</b>	S22 Do not breathe dust. S24 Avoid contact with skin. S37 Wear suitable gloves. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Additional labelling elements</b>	None

### 2.3 Other hazards

None known. Minimum standards for protection measures (TRGS 500) as common in the chemical industry should be followed.

## SECTION 3: Composition/Information on Ingredients

### 3.2 Mixtures

#### Description

Mixture of the following hazardous substances with non-hazardous additives

#### Hazardous ingredients





Substance name	CAS-No.	EC-No.	REACH-No.
Ceftazidime	72558-82-8	276-715-9	-
Conc. (w/w %)	Classification acc. to DSD	Classification acc. to CLP	Note
≥ 50 - < 60 %	 R42/43	 Sens. Skin 1, H317  Sens. Resp. 1, H334	[1]
Substance name	CAS-No.	EC-No.	REACH-No.
Polymyxin B-sulfate	1405-20-5	215-774-7	

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

Conc. (w/w %)	Classification acc. to DSD	Classification acc. to CLP	Note
≥ 25 - < 30 %	 Xn, R22	 Acute Tox. 4, H302	
Substance name	CAS-No.	EC-No.	REACH-No.
Acriflavine	8048-52-0	-	
Conc. (w/w %)	Classification acc. to DSD	Classification acc. to CLP	Note
≥ 10 - < 15 %	 Xn, R22 Xi, R36/37/38 N, R50	 Acute Tox. 4; H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aqua. Acute 1, H400	

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = SVHC-candidate (substance of very high concern).  
For the full text of the R-phrases / H-Statements mentioned in this section, see section 16.

### SECTION 4: First-Aid-Measures

#### 4.1 Description of First-Aid-Measures

General Advice: Immediately remove any clothing soiled by the product.

Inhalation: Fresh air. If breathing stops: immediately apply artificial breathing, if necessary oxygen. Call a physician immediately.

Skin contact: Wash off with water and soap. Call a physician immediately.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician immediately.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available.

#### 4.3 Indications of any immediate medical attention and special treatment

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, carbon dioxide (CO<sub>2</sub>), foam, extinguishing powder.

Unsuitable extinguishing media: Water full jet

#### 5.2 Special Hazards arising from the substance or mixture

Hazardous combustion products: Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides

#### 5.3 Advice for fire fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing (see Section 8).

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area. Wear appropriate protective equipment (see Section 8).

#### 6.2 Environmental precautions

Do not empty into drains.

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

### 6.3 Methods and material for containment and cleaning up:

Cover drains. Collect, bind and pump off spills. Observe possible material restrictions (see Section 7.2 and 10.5). Take up dry. Dispose of properly. Clean up affected area. Avoid formation of dusts.

### 6.4 Reference to other sections

See Section 7 for Handling and Storage, Section 8 for appropriate personal protective equipment and Section 13 for disposal considerations.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid generation of dusts. In case of formation of dusts: ensure adequate ventilation.

Precautions against fire and explosion: No special measures necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storing conditions:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: protected from light, 2...8 °C.

Packaging materials: Keep only in the original container.

Conditions for storage rooms and vessels: No special measures necessary.

Hints for joint storage: Store separate from products of the following storage classes: 1, 5.1A, 6.2, 7.

Joint storage with products of storage classes 2.1, 3, 4.1A, 4.2, 4.3, 5.1B-C, 5.2, 6.1A-B allowed, if specific conditions are kept (for further information: see Section 7.2 TRGS 510).

Storage class: 10-13

### 7.3 Specific end use(s)

None known.

## SECTION 8: Exposure controls / Personal protective equipment

### 8.1 Control parameters

#### Exposure limits

Substance	CAS-No.	Value	Limit value	Source
-	-	-	-	-

Control- and monitoring procedures: see for example "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health.

#### DNEL- / DMEL-Value

Substance	-
EC-No.	-
CAS-No.	-

Exposure Route	Species	Time of exposure / Effect	Value	Note
-	-	-	-	-

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

### PNEC-Value

Substance -

EC-No. -

CAS-No. -

Environmental compartment	Species / Time of exposure / Effect	Value
-	-	-

### 8.2 Exposure controls

Appropriate engineering controls: Technical measures and appropriate working procedures should be given priority over the use of personal protective equipment:  
Individual protection measures, such as personal protective equipment: Do not breathe dusts. Avoid skin and eye contact.

Hygienic measures	Keep away from food and feeding stuff. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Separate storage of protective clothes.	
Skin protection	Protective clothes	
Hand protection	Nitrile rubber	
	Full contact:	Splash contact:
Glove material	Nitrile rubber	Nitrile rubber
Glove thickness (mm)	≥ 0.11	≥ 0.11
Break through time (min)	≥ 480	≥ 480
	The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	
Respiratory protection	Respiratory protection in case of dust formation. Filtering device: Filter Type P1.	
Eye/ face protection	Goggles.	
Thermal hazards	None known.	
Others	None known.	
Environmental Exposure controls	-	Do not empty into drains.

# Material Safety Data Sheet

## Palcam Selective Supplement

According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10



### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Solid
Form	powder
Particle size	Not applicable
Colour	orange-red
Odour	Not applicable
Odour threshold	Not applicable
pH	Not applicable
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower flammability or explosive Limits	No data available
Upper flammability or explosive Limits	No data available
Minimum ignition energy	No data available
Vapour pressure	Not applicable
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient; n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	The product itself is not explosive.
Oxidising properties	The product itself is not oxidizing.

#### 9.2 Other Information

Density	No data available
Bulk density	No data available
Further information	Not applicable

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Dangerous reactions are not expected handling the product according to the intended use.

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

### 10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

See 10.1.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Nitric acid, Peroxides, permanganates.

### 10.6 Hazardous decomposition products

Hazardous combustion products: Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides.

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	1544 mg/kg (ATE)	Calculation method	

#### Skin irritation

No data available.

#### Eye irritation

No data available.

Sensitisation: No data available.

Repeated dose toxicity: No data available.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Toxic for reproduction: No data available.

STOT – single exposure: No data available.

STOT – repeated exposure: No data available.

### 11.2 Further Information

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No data available.

Further toxicological information: No data available.

#### Components: Cefprozil:

##### Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	> 2000 mg/kg	Rat	Supplier MSDS

After Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

After Ingestion: May be harmful if swallowed.

After Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

After Eye contact: Causes serious eye irritation.

# Material Safety Data Sheet

## Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

### Polymyxin B-sulfate: Acute Toxicity

Exposition	LD50/LC50-Value	Species/Test system	Source
Oral	790 mg/kg	Mouse	Supplier MSDS

### Acriflavine: Acute Toxicity

Exposition	LD50/LC50-Value	Species/Test system	Source
Oral	500 mg/kg (ATE)	-	Supplier MSDS

## SECTION 12: Ecological information

### Mixture

#### 12.1 Toxicity

Toxicity	Species/test system	Value
-	-	-

#### 12.2 Persistence and degradability Biodegradation

Method	Elimination rate	Classification	Source
-	-	-	-

Biodegradation/Further Information: No data available.  
Further Information: No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of der PBT & vPvB assessment

Product does not contain substances which meet the PBT/vPvB criteria of REACH, annex XIII.

#### 12.6 Other adverse effects

Biological effects: No data available.  
Further information on ecology: Discharge in the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product: Recommendation: Waste can be disposed of in appropriate and approved facilities in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Uncleaned Packaging: Recommendation: Completely emptied packages can be recycled. Packing which cannot be properly cleaned must be disposed of. Observe local/state/federal regulations.

Cleaned Packaging: Non-contaminated packages must be recycled or disposed of.

Waste codes / waste designations according to EWC / AVV: The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.



# Material Safety Data Sheet

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Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

### SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: Regulatory information

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

National and local regulations must be observed. For information on labelling please refer to section 2 of this document.

EU legislations: Subject to Directive 96/82/EG: not applicable.

National Regulations: -

Restrictions to occupation: Observe employment restrictions for pregnant and nursing mothers according to the 'mother protection guideline' (92/85/EEC). Observe restrictions to employment for juveniles according to the 'protection of young people at work directive' (94/33/EC).

#### TA Air

CAS-No.	Substance	Number	Class
-	-	-	-

Water hazard class: 3 (classification according to Annex 4 VwVwS (Deutschland)).

#### 15.2 Chemical safety assessment

For this product a chemical assessment was not carried out.

### SECTION 16: Other Information

Further Information: None.

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

R-phrases	Text
22	Harmful if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
50	Very toxic to aquatic organisms

Full text of H-Statements referred to under Sections 2 and 3

H-statement	Text
302	Harmful if swallowed.
315	Causes skin irritation.
317	May cause an allergic skin reaction.
319	Causes serious eye irritation.
334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
335	May cause respiratory irritation.
400	Very toxic to aquatic life.

## Material Safety Data Sheet Palcam Selective Supplement



According to Regulation (EC) No. 1907/2006  
Version 2.0, Issue Date: 2014-05-28, Replaces version: 2004-12-10

**Further Information:** The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

**Changes:** The present MSDS is a completely revised MSDS fulfilling the requirements of Annex II of Regulation (EC) 1907/2006 and Annex II of Regulation (EC) 453/2010.