# SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

of the mixture

**BACTROBAN CREAM** 

Registration number

**Synonyms** BACTROBAN CREAM (MUPIROCIN CALCIUM CREAM) 2% \* BACTROBAN CREAM 2% \*

MUPIROCIN CALCIUM \* MUPIROCIN CALCIUM, FORMULATED PRODUCT

Issue date 24-September-2013

Version number

**Revision date** 24-September-2013

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

**Identified uses** Medicinal Product

> This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant

to medicinal use of the product. In this instance patients should consult prescribing

information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate

safety data sheet for each ingredient.

Uses advised against No other uses are advised.

### 1.3. Details of the supplier of the safety data sheet

GlaxoSmithKline UK 980 Great West Road

Brentford, Middlesex TW8 9GS UK

UK General Information (normal business hours): +44-20-8047-5000

Email Address: msds@gsk.com Website: www.gsk.com

1.4. Emergency telephone

number

TRANSPORT EMERGENCIES::

UK In-country toll call: +(44)-870-8200418 International toll call: +1 703 527 3887

available 24 hrs/7 days; multi-language response

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

# Classification according to Regulation (EC) No 1272/2008 as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

#### 2.2. Label elements

# Label according to Regulation (EC) No. 1272/2008 as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Supplemental label information Not applicable.

2.3. Other hazards This product will support combustion at elevated temperatures.

> Caution - Pharmaceutical agent. See section 11 for additional information on health hazards. No information is available about the potential of this product to produce adverse environmental

effects.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

Material name: BACTROBAN CREAM SDS UK

**General information** 

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

CETOMACROGOL 1000 BP 5 - < 10 68439-49-6 -

500-212-8

Classification: DSD: Xi:R36-38

CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319

CETYL ALCOHOL 3 - < 5 36653-82-4 - -

253-149-0

Classification: DSD: Xi:R38

CLP: Skin Irrit. 2;H315

CALCIUM MUPIROCIN DIHYDRATE 2.0 - 3.0 115074-43-6 - -

Classification: DSD: -

CLP: -

Benzyl alcohol 1 - < 3 100-51-6 - 603-057-00-5

202-859-9

Classification: DSD: Xn;R20/22

CLP: Acute Tox. 4;H302, Acute Tox. 4;H332

PHENOXYETHANOL < 1 122-99-6 - 603-098-00-9

204-589-7

Classification: DSD: Xn;R22, Xi;R36

CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319

Other components below reportable levels 80 - < 90

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

# **SECTION 4: First aid measures**

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion**Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without medical advice. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

The following adverse effects have been noted with therapeutic use of this material: symptoms of

4.2. Most important symptoms and effects, both acute and

delayed

The following adverse effects have been noted with the appear use of this material. Symptoms of

hypersensitivity (such as skin rash, hives, itching); irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

**SECTION 5: Firefighting measures** 

General fire hazards This product will support combustion at elevated temperatures.

5.1. Extinguishing media

Suitable extinguishing Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Unsuitable extinguishing Water.

media

nodia

Material name: BACTROBAN CREAM

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from the fire area if possible without increased personal risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

# **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Keep unnecessary personnel away. Wear protective clothing and equipment consistent with the degree of hazard. For personal protection, see section 8.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

MSDS.

6.2. Environmental precautions

For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems.

6.3. Methods and material for containment and cleaning up Collect and place it in a suitable, properly labelled container for recovery or disposal.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Detergent solutions can be used for clean-up and decontamination operations. No specific decontamination or detoxification procedures have been identified for this product.

6.4. Reference to other

For personal protection, see section 8. For waste disposal, see section 13.

sections

## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. No special control measures required for the normal handling of this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS). No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.

7.3. Specific end use(s)

Medicinal Product

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Occupational exposure limits

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Components	Туре	Value		
MUPIROCIN CALCIUM (CAS 115074-43-6)	8 HR TWA	5000 mcg/m3		
·	OHC	1		
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Recommended monitoring procedures	Follow standard monitoring procedure	S.		

Derived No Effect Level (DNEL)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If

exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment **General information** 

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow all local regulations if

personal protective equipment (PPE) is used in the workplace.

Eye/face protection Chemical goggles are recommended. (eg. EN 166)

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Skin protection

- Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality

> features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present. Select suitable chemical resistant protective gloves (EN

374) with a protective index 6 (>480min permeation time).

- Other Not normally needed.

Respiratory protection No personal respiratory protective equipment normally required. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures For advice on suitable monitoring methods, seek guidance from a qualified environment, health

and safety professional.

Environmental exposure controls

Hazard guidance and control recommendations Environmental manager must be informed of all major releases.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Cream. Colour Off-white. Odour Not available. Not available. **Odour threshold** рH Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

120 °C (248 °F) estimated

> 120 °C (> 248 °F) Closed cup Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapour pressure Not available. Vapour density Relative density Not available. Solubility(ies) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information No relevant additional information available.

## **SECTION 10: Stability and reactivity**

10.1. Reactivity Strong oxidising agents.

10.2. Chemical stability Not available.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

Material name: BACTROBAN CREAM 3091 Version No.: 12 Revision date: 24-September-2013 Issue date: 24-September-2013 **10.6. Hazardous** Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

decomposition products

**SECTION 11: Toxicological information** 

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** Not expected to occur during normal handling of this product.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Symptoms The following adverse effects have been noted with therapeutic use of this material: symptoms of

hypersensitivity (such as skin rash, hives, itching); Irritation.

#### 11.1. Information on toxicological effects

Components	Species	Test results
Benzyl alcohol (CAS 100-5	51-6)	
Acute		
Inhalation		
LC50	Rat	1000 ppm
Oral		
LD50	Rat	1230 mg/kg
CALCIUM MUPIROCIN DI	HYDRATE (CAS 115074-43-6)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
CETOMACROGOL 1000 E	BP (CAS 68439-49-6)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
CETYL ALCOHOL (CAS 3	6653-82-4)	
Acute		
Oral		
LD50	Rat	5 g/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Irritation Corrosion - Skin

CALCIUM MUPIROCIN DIHYDRATE Acute dermal irritation, Primary dermal irritation index = 0;

Mupirocin free acid tested

Result: negative Species: Rabbit

Serious eye damage/eye

irritation Eye Direct contact with eyes may cause temporary irritation.

CALCIUM MUPIROCIN DIHYDRATE

Acute ocular irritation, Kay and Calandra score = 3
Result: Minimal Irritant

Species: Rabbit

9.11.

**Respiratory sensitisation** Not available.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

Sensitisation

CALCIUM MUPIROCIN DIHYDRATE Maximisation assay (Magnusson and Kligman), Mupirocin

free acid tested Result: negative Species: Guinea pig

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Mutagenicity

CALCIUM MUPIROCIN DIHYDRATE Ames Assay, GLP assay

Result: negative

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Mutagenicity

CALCIUM MUPIROCIN DIHYDRATE Chromosomal Aberration Assay In Vitro, human lymphocytes

Result: negative Micronucleus Assay Result: negative Species: Mouse

Mouse Lymphoma Cell (L5178Y) Mutation Assay, GLP assay

Result: negative

Sister Chromatid Exchange

Result: negative

Unscheduled DNA Synthesis, in vivo - in vitro

Result: negative Species: Rat

Carcinogenicity

CALCIUM MUPIROCIN DIHYDRATE SAR / QSAR, DEREK, Lhasa, UK

Result: negative

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Reproductive toxicity

Reproductivity

CALCIUM MUPIROCIN DIHYDRATE

Embryo-foetal development - Subcutaneous, Subcutaneous dosing; maximum dose equivalent to 22X maximum human topical daily dose (about 60 mg) on a body surface basis

Result: negative Species: Rat

Embryo-foetal development - Subcutaneous, Subcutaneous dosing; maximum dose equivalent to 43X maximum human topical daily dose (about 60 mg) on a body surface basis

Result: negative Species: Rabbit

Fertility and general reproductive performance,

Subcutaneous dosing; maximum dose equivalent to 14X maximum human topical daily dose (about 60 mg) on a body

surface basis Result: negative Species: Rat

Specific target organ toxicity -

single exposure

None known.

Specific target organ toxicity -

repeated exposure

None known.

Aspiration hazard Not available.

Mixture versus substance

information

No information available.

Other information Not available.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Components		Species	Test results
Benzyl alcohol (CAS 100-51-6	6)		
Acute			
Algae	EC50	Green algae (Scenedesmus quadricauda)	640 mg/l, 96 hours
Aquatic			
Acute			
Activated Sludge Respiration	IC50	Mixed industrial/residential sludge.	2100 mg/l, 49 hours
Crustacea	EC50	Water flea (Daphnia magna)	360 mg/l, 48 hours
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	10 mg/l, 96 hours, Static test
		Fathead minnow (Adult Pimephales promelas)	460 mg/l, 96 hours, Static test
Microtox	EC50	Microtox	63.7 mg/l, 15 minutes

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Components Species Test results

CALCIUM MUPIROCIN DIHYDRATE (CAS 115074-43-6)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours, Nominal

NOEC Daphnia 1000 mg/l

CETYL ALCOHOL (CAS 36653-82-4)

Aquatic

Acute

Algae EC50 Green algae (Scenedesmus 676 mg/l, 96 hours

subspicatus)

Fish EC50 Bluegill sunfish (Adult Lepomis > 1000 mg/l, 96 hours

macrochirus)

Fathead minnow (Adult Pimephales > 500 mg/l, 5 days

promelas)

\* Estimates for product may be based on additional component data not shown.

12.2. Persistence and

No data is available on the degradability of this product.

degradability

Persistence and degradability

**Photolysis** 

Half-life (Photolysis-atmospheric)

Benzyl alcohol 2 Days Estimated CETYL ALCOHOL 16.7 Hours Estimated

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

CETYL ALCOHOL 0.4 %, < 1 day Other degradation test system, Activated

sludge

30 - 60 %, 5 days BOD5

Percent degradation (Aerobic biodegradation-ready)

Benzyl alcohol > 90 %, 30 days Closed Bottle test, Activated sludge

Percent degradation (Anaerobic biodegradation)

Benzyl alcohol 100 %, 14 days Serum Bottle, Anaerobic sludge

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Benzyl alcohol 1.1

CALCIUM MUPIROCIN DIHYDRATE 2.45 (calculated)

PHENOXYETHANOL 1.16

**Bioconcentration factor (BCF)** 

Benzyl alcohol 4 Estimated
CETYL ALCOHOL > 9999 Measured

**12.4. Mobility in soil** Not available.

Adsorption

Soil/sediment sorption - log Koc

Benzyl alcohol < 0.7 Measured
CETYL ALCOHOL 3.58 - 4.67 Estimated

Mobility in general

Volatility

Henry's law

Benzyl alcohol 0 atm m^3/mol, 25 C Estimated CETYL ALCOHOL 0.000073 atm m^3/mol Estimated

7

Distribution

Octanol/water distribution coefficient log DOW

CALCIUM MUPIROCIN DIHYDRATE 0.3 (calculated)

Octanol/water distribution coefficient pH

CALCIUM MUPIROCIN DIHYDRATE

12.5. Results of PBT Not available.

and vPvB assessment

**12.6. Other adverse effects** Not available.

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Observe all

> local and national regulations when disposing of this product. Collect for recycling or recovery if possible. The disposal method for rejected products/returned goods must ensure that they cannot

be re-sold or re-used.

**Special precautions** Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### ADR

Not regulated as dangerous goods.

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine

environment. These materials may not be transported in bulk.

MARPOL73/78 and the IBC Code

## **SECTION 15: Regulatory information**

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

## **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

## Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed

## Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Benzyl alcohol (CAS 100-51-6) PHENOXYETHANOL (CAS 122-99-6)

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations15.2. Chemical safetyNo Chemical Safety Assessment has been carried out.

assessment

**SECTION 16: Other information** 

**List of abbreviations** Not available.

**References** GSK Hazard Determination

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

**Revision information** Product and Company Identification: Business Units

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Reports TOXICOLOGICAL INFORMATION:

Transport Information: Agency Name and Packaging Type/Transport Mode Selection

**GHS: Classification** 

**Training information** Follow training instructions when handling this material.

**Disclaimer** The information and recommendations in this safety data sheet are, to the best of our knowledge,

accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and

the suitability of the material or product for any particular purpose.