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

1.1 Product identifier

Trade name : Baktolan lotion

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

Use of the Substance/Mixture : In-door use
For further information, refer to the product technical data sheet.

Recommended restrictions on use : Cosmetics, Skin-care, Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, supplier : BODE Chemie GmbH
Melanchthonstraße 27
22525 Hamburg
Tel.: +49 (0)40 / 54 00 60

Responsible Department : Scientific Affairs
KundenService-SiDa@bode-chemie.de

1.4 Emergency telephone number

Emergency telephone number : Giftnotruf Göttingen
24h-Phone +49 (0)551 / 1 92 40

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
pentane-1,2-diol	5343-92-0 226-285-3	Xi; R41	Eye Dam. 1; H318	>= 1 - < 3
2-bromo-2-nitropropane-1,3-diol	52-51-7 200-143-0	Xn; R21/22 Xi; R37/38-R41 N; R50	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400	< 0,25

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possible).

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

If swallowed : Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water, Dry powder, Foam

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

Special protective equipment for firefighters	:	No information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Material can create slippery conditions.

6.2 Environmental precautions

Environmental precautions	:	Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	No special precautions required.
Advice on protection against fire and explosion	:	No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store at room temperature in the original container.
Advice on common storage	:	Keep away from food and drink.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Protective measures : No special protective equipment required.

Environmental exposure controls

General advice : Should not be released into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	viscous
Colour	:	white
Odour	:	pleasant
Odour Threshold	:	no data available
pH	:	not applicable
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	not applicable
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Burning rate	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapor density	:	no data available
Relative density	:	no data available
Density	:	0,99 g/cm3 at 20 °C
Water solubility	:	completely miscible
Solubility in other solvents	:	no data available
Partition coefficient: n-	:	no data available

octanol/water		
Ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	10.000 - 25.000 mPa.s at 20 °C Method: ISO 2555 Brookfield DVII+, RV5
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available

9.2 Other information

Conductivity	:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid	:	Heat. Strong sunlight for prolonged periods.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	:	no data available
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available

Acute toxicity (other routes of administration)	:	no data available
Skin corrosion/irritation	:	Result: No skin irritation
Serious eye damage/eye irritation	:	Result: No eye irritation
Respiratory or skin sensitization	:	Result: Does not cause skin sensitization.
Germ cell mutagenicity		
Genotoxicity in vitro	:	no data available
Genotoxicity in vivo	:	no data available
Carcinogenicity	:	This information is not available.
Reproductive toxicity	:	This information is not available.
Teratogenicity	:	This information is not available.
STOT - single exposure	:	Remarks: no data available
Repeated dose toxicity	:	Note: This information is not available.
STOT - repeated exposure	:	Remarks: no data available

Components:

pentane-1,2-diol (CAS: 5343-92-0) :

Acute oral toxicity	:	LD50 rat: > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 rat: > 7.015 mg/l Exposure time: 4 h
Skin corrosion/irritation	:	Species: rabbit Result: No skin irritation
Serious eye damage/eye irritation	:	Species: rabbit Result: Irreversible effects on the eye

2-bromo-2-nitropropane-1,3-diol (CAS: 52-51-7) :

Acute oral toxicity	:	LD50 rat: 305 mg/kg Method: OECD Test Guideline 401
Skin corrosion/irritation	:	Species: rabbit Result: Skin irritation
Serious eye damage/eye irritation	:	Species: rabbit Result: Irreversible effects on the eye

STOT - single exposure	:	Exposure routes: Inhalation Target Organs: Respiratory system Assessment: May cause respiratory irritation.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	no data available
Toxicity to bacteria	:	no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	no data available

Components:

pentane-1,2-diol (CAS 5343-92-0) :

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h

2-bromo-2-nitropropane-1,3-diol (CAS 52-51-7) :

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 41,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,4 mg/l Exposure time: 48 h
Toxicity to algae	:	(Desmodesmus subspicatus (green algae)): 0,4 mg/l Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability	:	no data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	no data available

Components:
2-bromo-2-nitropropane-1,3-diol (CAS 52-51-7) :

Partition coefficient: n-	:	log Pow: 0,18 at 20 °C

octanol/water

12.4 Mobility in soil

Product:

Distribution among environmental compartments	:	no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	no data available

12.6 Other adverse effects

Product:

Adsorbed organic bound halogens (AOX)	:	no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	In accordance with local and national regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

14.1 UN number

ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
ADN
Not dangerous goods

14.2 UN proper shipping name

ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

ADN
Not dangerous goods

14.3 Transport hazard class
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
ADN
Not dangerous goods

14.4 Packaging group
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
ADN
Not dangerous goods

14.5 Environmental hazards
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
ADN
Not dangerous goods

14.6 Special precautions for user
not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

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

Notification status

CH INV	:	The formulation contains substances listed on the Swiss Inventory
US.TSCA	:	Not On TSCA Inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	Not in compliance with the inventory

ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory

For explanation of abbreviations see section 16.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

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

R21/22	Harmful in contact with skin and if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

Full text of other abbreviations

Notification status

CH INV	:	Switzerland. New notified substances and declared preparations
US.TSCA	:	Toxic substances control act
DSL	:	Canada. DSL - Domestic Substances List, part of CEPA
AICS	:	Australia. AICS - Australian Inventory of Chemical Substances
NZIoC	:	New Zealand Inventory of Chemical Substances
ENCS	:	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	:	Japan. Industrial Safety and Health Law - Inventory
KECI	:	Korea. KECI - Korean Existing Chemicals Inventory
PICCS	:	Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC	:	China. IECSC - Inventory of Existing Chemical Substances in China

Safety datasheet sections which have been updated:

8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
15. Regulatory information

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