

Print Date 2011/02/02

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

## BEROL 226

Version 3.2 Revision Date 2011/02/02 MSDS code: MVVV336

#### Identification of the substance/mixture and of the company/undertaking 1.

### 1.1. Product identifier

on use

Trade name : BEROL 226

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

: At this time we do not yet have information on identified uses. Use of the Substance/Mixture

They will be included in this safety data sheet when available.

Recommended restrictions : At that time we do not yet have information on use restrictions.

They will be included in this safety data sheet when available.

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

Company : Brenntag UK & Ireland

Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon

Telephone 0113 3879 200 Telefax : 0113 3879 280

E-mail address : msds@brenntag.co.uk

### 1.4. Emergency telephone number

Emergency only telephone number (open 24 hours): Emergency telephone

01865 407333 (N.C.E.C. Culham) number

#### 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008						
Hazard class	Hazard category	Target Organs	Hazard statements			
Serious eye damage	Category 1		H318			



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Chronic aquatic toxicity

Category 2

H411

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

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC					
Hazard symbol / Category of danger	Risk phrases				
Irritant (Xi)	R38, R41				
Dangerous for the environment (N)	R51/53				

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

### Most important adverse effects

Human Health : See section 11 for toxicological information.

No further information available.

Physical and chemical

hazards

See section 9 for physicochemical information.

No further information available.

Potential environmental

effects

See section 12 for environmental information.

No further information available.

#### 2.2. Label elements

## Labelling according to Regulation (EC) No 1272/2008

Hazard symbols





Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements



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Prevention : P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response : P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P308 IF exposed or concerned:

P310 Immediately call a POISON CENTER or

doctor/ physician.

P391 Collect spillage.

### **Additional Labelling:**

The following percentage of the mixture consists of  $\,$  ingredient(s) with unknown acute toxicity:29.9999 %

Hazardous components which must be listed on the label:

• (C9-C11) Alkyl alcohol, ethoxylate

#### 2.3. Other hazards

No other information is available.

## 3. Composition/information on ingredients

## 3.2. Mixtures

Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification
			Hazard class / Hazard category	Hazard statements	(67/548/EEC)
CAS-No.	: 68439-46-3	>= 50 - < 60	1	H318	Xi; R38-R41
Сосо	: 68439-46-3		1	H318	Xi; R38-R41



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CAS-No. : 61791-10-4 Eye Dam.1 H318 Xi; R41 Aquatic H411 N; R51/53

>= 30 - < 40 Aquatic Chronic2

Alkylglycol

>= 10 - < 30

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.

### 4. First aid measures

### 4.1 Description of first aid measures

General advice : Call a physician immediately.

If inhaled : Not relevant

In case of skin contact : Take off all contaminated clothing immediately. Wash off with

warm water. If symptoms persist, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Call a physician immediately.

If swallowed : Never give anything by mouth to an unconscious person.

Clean mouth with water and drink afterwards plenty of water.

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

Symptoms : No further information available.

Effects : No further information available.

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

Treatment : Treat symptomatically.

No further information available.



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## 5. Fire-fighting measures

## 5.1. Extinguishing media

Suitable extinguishing

: Water spray Foam

media

Carbon dioxide (CO2)

Dry powder

Alcohol-resistant foam

Unsuitable extinguishing

media

: No information available.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards during fire

does not ignite

fighting

May assist fire in burning materials Hazardous decomposition products

None known.

### 5.3. Advice for firefighters

Special protective

equipment for fire-fighters

: Self-contained breathing apparatus (EN 133)

Further information

: No further information available.

## 6. Accidental release measures

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

Personal precautions : Wear personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up



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Methods and materials for : Soak up with inert absorbent material. Treat recovered containment and cleaning

material as described in the section "Disposal considerations". up

#### 6.4 Reference to other sections

For personal protection see section 8.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

: Keep away from food, drink and animal feedingstuffs. Smoking, Hygiene measures

eating and drinking should be prohibited in the application area.

Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers

: No special storage conditions required.

Other data : Stable under normal conditions.

#### 7.3 Specific end uses

Specific use(s) : No information available.

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## 8. Exposure controls/personal protection

## 8.1. Control parameters

#### Other OELs

(Additional) Information : Contains no substances with occupational exposure limit values.

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection

Advice : Suitable respiratory protective device

Hand protection

Advice : Wear suitable gloves.

The glove material has to be impermeable and resistant to the

product / the substance / the preparation.

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Neoprene gloves Nitrile rubber

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection



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Advice : Protective suit

**Environmental exposure controls** 

General advice : Do not flush into surface water or sanitary sewer system.

## 9. Physical and chemical properties

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

Form : liquid

Colour : tar

Odour : Currently we do not have any Information from our

supplier about this.

Odour Threshold : Currently we do not have any Information from our

supplier about this.

pH : 5-8

10 g/l

Melting point/range : < -10 °C

Boiling point/boiling range : > 100 °C

760 hPa

Flash point : > 100 °C

Method: ISO 2719

Evaporation rate : Currently we do not have any Information from our

supplier about this.

Flammability (solid, gas) : Currently we do not have any Information from our

supplier about this.

Upper explosion limit : Currently we do not have any Information from our

supplier about this.

Lower explosion limit : Currently we do not have any Information from our

supplier about this.

Vapour pressure : Currently we do not have any Information from our

supplier about this.

Relative vapour density : Currently we do not have any Information from our

supplier about this.

Density : 1.01 g/cm3

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20 °C

Water solubility : completely miscible

Solubility in other solvents : Medium: Ethanol

completely miscible

Partition coefficient: n-octanol/water : Currently we do not have any Information from our

supplier about this.

Ignition temperature : Currently we do not have any Information from our

supplier about this.

Thermal decomposition : Currently we do not have any Information from our

supplier about this.

Viscosity, dynamic : ca. 80 mPa.s

20 °C

Explosivity : Currently we do not have any Information from our

supplier about this.

Oxidizing properties : Currently we do not have any Information from our

supplier about this.

9.2 Other information

No further information available.

## 10. Stability and reactivity

10.1. Reactivity

Advice : No information available.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : No information available.

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## 10.6. Hazardous decomposition products

Hazardous decomposition : None known.

products

## 11. Toxicological information

## 11.1. Information on toxicological effects

**Product: BEROL 226** 

### **Acute toxicity**

Oral

Value type : LD50

Value : > 2,000 mg/kg

Species : rat

#### Irritation

Eyes

Species : rabbit

Remarks : Severe eye irritation

### Sensitisation

Remarks : not sensitizing

## 12. Ecological information

## 12.1. Toxicity

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## **Acute toxicity**

### Fish

Test type : Toxicity to fish

Species : Oncorhynchus mykiss

Exposure Time : 96 h

Value type : LC50

Value : 10 - 30 mg/l

## Toxicity to daphnia and other aquatic invertebrates.

Test type : Toxicity to daphnia

Species : Daphnia
Exposure time : 48 h
Value type : EC50
Value : 10 - 20 mg/l

## algae

Test type : Toxicity to algae

Exposure time : 72 h
Value type : EC50
Value : 1.6 mg/l

### 12.2. Persistence and degradability

**Product: BEROL 226** 

## Persistence and degradability

## **Biodegradability**

Biodegradation : < 60 % Exposure time : 28 d

Method : OECD 301 B Remarks : biodegradable

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### 12.3. Bioaccumulative potential

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#### Bioaccumulation

Remarks : Bioaccumulation is not expected.

- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects

## 13. Disposal considerations

#### 13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let product enter drains. Dispose of as special waste in

compliance with local and national regulations.

Contaminated packaging : Dispose of as unused product. Dispose of in accordance with

local regulations.

European Waste Catalogue

Number

: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

with the regional waste disposer.

### 14. Transport information

### 14.1. UN number

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### 14.2. UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Coco alkylbis(hydroxyethyl)methylammonium chlorides, ethoxylated)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Coco alkylbis(hydroxyethyl)methylammonium chlorides, ethoxylated)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Coco alkylbis(hydroxyethyl)methylammonium chlorides, ethoxylated)

### 14.3. Transport hazard class(es)

ADR-Class : 9

(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 9; M6; 90; (E)

RID-Class : 9

(Labels; Classification Code; Hazard

identification No)

9; M6; 90

IMDG-Class : 9

(Labels; EmS) 9; F-A, S-F

### 14.4. Packaging group

ADR : III

RID : III

IMDG : III

### 14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no Labeling according to 5.2.1.8 RID : no Labeling according to 5.2.1.6.3 IMDG : no Classification as environmentally : no

hazardous according to 2.9.3 IMDG



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## 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

IMDG : Not applicable.

### 15. Regulatory information

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

## 15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

### 16. Other information

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

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

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

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

|| Indicates updated section.



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The information provided in this Safety Data Sheet is correct to our knowledge at the date of its

revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal

relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text