

No. 1907/2006 (REACH) revision 06.10.20

06.10.2016 (GB) Version 4.6

Bordnet 414890

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

1.1. Product identifier

Name of product Bordnet 414890

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Alkaline cleaner

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor BAYROL Deutschland GmbH

Robert-Koch-Str. 4, D-82152 Planegg

Phone +49 (0) 89 85701-0

**Advice** 

E-mail (competent person): ASchwarzenboeck@bayrol.eu

1.4. Emergency telephone number

NCEC, Phone (+44)(0)1865407333

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard Hazard Statements Classification procedure

categories

Skin Irrit. 2 H315 Eye Irrit. 2 H319

**Hazard Statements** 

H315 Causes skin irritation.H319 Causes serious eye irritation.

# 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

## Signal word

Warning

#### **Hazard Statements**

H315 Causes skin irritation. H319 Causes serious eye irritation.

# **Precautionary Statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.



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P280 Wear protective gloves/eye protection.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

P338 easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

# Hazardous ingredients for labeling

potassium-hydroxide

#### 2.3. Other hazards

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# ! SECTION 3: Composition/ information on ingredients

## 3.1. Substances

not applicable

## 3.2. Mixtures

## ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
111-76-2	203-905-0	2-butoxyethanol	< 10	Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
1310-58-3	215-181-3	potassium-hydroxide	< 2	Acute Tox. 4, H302 / Skin Corr. 1A, H314
37971-36-1	253-733-5	2-Phosphonobutane-1,2,4-tricarboxylic acid	2,5	Met. korr. 1, H290 / Eye Irrit. 2, H319

# **REACH**

CAS No	Name	REACH registration number
111-76-2	2-butoxyethanol	01-2119475108-36-XXXX
1310-58-3	potassium-hydroxide	01-2119487136-33-XXXX
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	01-2119436643-39-XXXX

# Additional advice

Neutralisationsreaktion

# Labelling for contents according to regulation (EC) No 648/2004, annex VII

LIMONENE (CAS 5989-27-5) less than 5 % anionic surfactants less than 5 % polycarboxylates perfumes

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

# General information

Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary. Adhere to personal protective measures when giving first aid.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.



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## In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

#### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes.

Keep eye wide open while rinsing.

Refer to medical treatment.

#### In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

Rinse out mouth and give plenty of water to drink.

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

## Physician's information / possible dangers

risk of strong eye injuries

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

**Treatment (Advice to doctor)** 

Treat symptoms.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

# Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

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

No information available.

## 5.3. Advice for firefighters

# Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

# **Additional information**

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Use personal protective clothing.

#### 6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

# 6.3. Methods and material for containment and cleaning up

Flush away residues with water.

#### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8 Emergency telephone number: see section 1



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# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures necessary if used correctly.

## **General protective measures**

Avoid contact with eyes and skin

#### Hygiene measures

Do not eat or drink when working.

Keep away from food and drink.

Wash hands before breaks and after work.

## Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

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

#### Requirements for storage rooms and vessels

Keep only in original container.

# Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

## Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

# Information on storage stability

Storage time: 5 years.

# 7.3. Specific end use(s)

## Recommendation(s) for intended use

See section 1.2

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

# 8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	

# 8.2. Exposure controls

## Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

# **Hand protection**

chemical-resistant gloves

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

## Eye protection

tightly fitting goggles



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

9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquidcolourlesssweetish

Odour threshold not determined

Important health, safety and environmental information

•	Value	Temperature	at	Method	Remark
pH value	9,8	20 °C	100 g/l	potentiometric	
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point					No flash point below 100°C.
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,036 g/cm3	20 °C			
Vapour density	not determined				
Solubility in water					multimiscible
Solubility/other	not determined				
Partition coefficient noctanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				



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**Oxidising properties** 

No information available.

**Explosive properties** 

No information available.

9.2. Other information

No information available.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

No information available.

## 10.3. Possibility of hazardous reactions

Reactions with strong acids.

Reactions with base metals, with evolution of hydrogen.

## 10.4. Conditions to avoid

No information available.

# 10.5. Incompatible materials

Substances to avoid

Acid

## 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

# Thermal decomposition

Remark No decomposition if used as directed.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg	rat		
LD50 acute dermal	> 2000 mg/kg	rabbit		
LC50 acute inhalation	> 20 mg/l (4 h)	rat		
Skin irritation	irritant			
Eye irritation	irritant - risk of strong eye injuries			

# **Subacute Toxicity - Carcinogenicity**



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	Value	Species	Method	Validation	
Mutagenicity	No data available				
Reproduction- Toxicity	No data available				
Carcinogenicity	No data available				
Experiences made the strict of	=				
Additional informat	ion	mnonent			

The declarations of toxicology refer to main component.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

No information available.

## 12.2. Persistence and degradability

Elimination rate Method of analysis Method Validation

Biological > 90 %

**degradability**The organic component of the product is biodegradable.

#### 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Other adverse effects

# Behaviour in sewage plant

The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

# ! SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

! Waste code No. Name of waste

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

## ! Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

The product should not be allowed to enter drains, water courses or the soil.

# Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

## Recommended cleansing agent

Water



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# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1814	1814	1814
14.2. UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
14.5. Environmental hazards	No	No	No

#### 14.6. Special precautions for user

No information available.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

# Land and inland navigation transport ADR/RID

Hazard label(s) 8 tunnel restriction code E Classification code C5

# ! SECTION 15: Regulatory information

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

# ! Other regulations (EU)

Regulation (EU) 1272/2008 (CLP), Regulation (EU) 1907/2006 (REACH), DECISION 2000/532/EG (list of wastes) Regulation (EC) No 648/2004 (Detergents regulation).

#### **VOC** standard

VOC content 5 %

# 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# ! SECTION 16: Other information

# Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

# **Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 4.5

## Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation



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H290 May be corrosive to metals.	
H302 Harmful if swallowed.	
H312 Harmful in contact with skin.	
H314 Causes severe skin burns and eye of	damage.
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H332 Harmful if inhaled.	