

No. 1907/2006 (REACH)

revision

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

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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 Eye Irrit. 2

H315 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	I. I	lnf	formation	on	basic	phy	vsical	and	cl	hemical	pro	perties
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Appearance

Colour

Odour

liquid

colourless

sweetish

Odour threshold

not determined

	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 n- octanol/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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Validation

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Species

Mutagenicity

No data available

Value

Reproduction-

No data available

Toxicity

Carcinogenicity

No data available

Experiences made from practice

Irritates mucous membranes.

Additional information

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 damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.