

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

1.1. Product identifier	
Name of product	Bayrosoft 414311
1.2. Relevant identified uses of the substance or Recommended intended purpose(s) Disinfection, oxidation, algae prevention and hardnee	-
1.3. Details of the supplier of the safety data she	et
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 categories	Hazard Statements Classification procedure
Acute Tox. 4	H302
Eye Dam. 1	H318
Aquatic Acute 1	
Aquatic Chronic 2	H411

Hazard Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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



Signal word Danger

Hazard Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.



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H411

Toxic to aquatic life with long lasting effects.

Precautionary Statements

P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
P234 P235 P270 P273 P280	Keep only in original container. Keep cool. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection.
P305 + P351 + P338 P308 + P311 P391	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER/doctor. Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling

hydrogen peroxide solution ...%

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

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7722-84-1	231-765-0	hydrogen peroxide solution%	32,6	Ox. Liq. 1, H271 / Acute Tox. 4, H332 / Acute Tox. 4, H302 / Skin Corr. 1A, H314
25988-97-0		Polymer of N-Methylmethanamine with (chloro methyl)oxirane	2,3	Acute Tox. 4, H302 / Aquatic Acute 1, H400 M=10 / Aquatic Chronic1, H410 M=1 /

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

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.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water. Refer for medical treatment.



In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Call for a doctor immediately.

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 water

5.2. Special hazards arising from the substance or mixture The product is not combustible, but supports burning by evolving oxygen gas in the heat of fire.

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.

Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder). Flush away residues with water. Do not take up with sawdust or other combustible materials.

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



SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Open and handle container with care! Do not return residues to the storage containers. Take the usual precautions when handling with chemicals.

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

Keep away from sources of ignition Emergency cooling must be provided for the eventuality of a fire in the vicinity. The product is not combustible, but supports burning.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels Keep only in original container (with safety valve).

Advice on storage compatibility

Do not store with combustible materials. Do not store together with food.

Further information on storage conditions

Protect from heat and direct solar radiation. Container should not be gas-tight closed. Keep in a cool place, heat causes increase in pressure and risk of bursting.

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

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 Face shield Safety goggles



Other protection measures protective overalls

SECTION 9: Physical and chemical properties

Appearance liquid		olour blourless		Odour odourless	
Odour threshold not determined					
Important health, safety and	l environmental ir	nformation			
	Value	Temperature	at	Method	Remark
pH value	2-4	20 °C		potentiometric	
boiling point	107 °C		1013 mbar		
melting point	-26 °C				
Flash point	not applicable				
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 applicable				
Upper explosion limit	not applicable				
Vapour pressure	18 hPa	20 °C			
Relative density	1,13 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				



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	Value	Temperature	at	Method	Remark
Viscosity	not determined				
Oxidising properties No information available.					
Explosive properties No information available.					
9.2. Other information No information available.					

Reactions with impurities. Reactions with organic substances. Reactions with alkalies and metals.

10.2. Chemical stability

Decompostion takes place from temperatures above: $>60^{\circ}C$

10.3. Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Substances to avoid Alkali (lye) Acid Reducing agent

10.6. Hazardous decomposition products Oxygen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	1000 mg/kg	rat		
LD50 acute dermal	4060 mg/kg	rabbit		
Eye irritation	risk of strong eye injuries			

Subacute Toxicity - Carcinogenicity



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	Value	Species	Method	Validation
Mutagenicity				No information available.
Reproduction- Toxicity				No information available.
Carcinogenicity				No information available.
Experiences made fi Product discolours sk	•			

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

Additional information

The declarations of toxicology refer to main component.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

C	Value	Species	Method	Validation
Fish	LC50 0,077 mg/l (96 h)	Oncorhynchus mykiss	OECD 203	
Daphnia	EC50 0,08 mg/l (48 h)	Daphnia magna	OECD 202	
Algae	EC50 0,13 mg/l	Scenedesmus subspicatus	OECD 201	

12.2. Persistence and degradability

No information available.

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

General regulation

The following ecotoxicological data refer to: Polymer aus N-Methylmethanamin mit (Chlormethyl)oxiran

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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	2014	2014	2014
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Hydrogen peroxide, aqueous solution
14.3. Transport hazard class(es)	5.1 (8)	5.1 (8)	5.1 (8)
14.4. Packing group	II	II	II
14.5. Environmental hazards	Yes	Yes	Yes

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) 5.1+8 tunnel restriction code E Classification code OC1

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 (EU) 528/2012 (BPR)

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. Acquisition, possession or use by the general public is restricted.

Further information

Refer to product information paper.

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: 6.2



Sources of key data used

Results of own researches and examinations Literature informations Toxicity studies, NIOSH-Tox-Data National legislation and regulation

- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.