

410162

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

1.1. Product identifier				
Name of product	Desalgin / Desalgine 410162			
1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s) Algicide for treatment of pool water.				
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, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de Internet www.bayrol.de			
Advice	E-mail (competent person): ASchwarzenboeck@bayrol.de			
1.4. Emergency telephone number				
Emergency advice	Giftnotruf München (oder jedes andere Giftinformationszentrum) Phone +49 (0) 89 19240			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

Xn	; R22
Xi;	R38
Xi;	R41
N:	R50

R-phrases

22	Harmful if swallowed.
38	Irritating to skin.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.

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

Hazard classes and categories	Hazard Hazard Statements Classification procedure
Acute Tox. 4	H302
Skin Corr. 1B	H314
Aquatic Acute 1	H400
Hazard Statements	S
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

2.2. Label elements



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



Signal word

Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

Precautionary Statements

P102	Keep out of reach of children.
P273 P280	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P350 P305 + P351 + P338 P309 + P311	IF ON SKIN: Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling

Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides

Special rules for supplemental label elements for certain mixtures

Contains perfume. May produce an allergic reaction.

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 67/548/EEC
64-17-5	200-578-6	ethanol	< 5	F R11
68424-85-1	270-325-2	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	22	Xn,R21/22; C,R34; N,R50
26062-79-3		2-propen-1-aminium, N,N-dimethyl-N-2- propenyl-, chloride, homopolymer	< 2,5	R52/53



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CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
64-17-5	200-578-6	ethanol	< 5	Flam. Liq. 2, H225
68424-85-1	270-325-2	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	22	Acute Tox. 4, H302 / Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Aquatic Acute, H400 / M10
26062-79-3		2-propen-1-aminium, N,N-dimethyl-N-2- propenyl-, chloride, homopolymer	< 2,5	Aqu. chron. 3, H 412
REACH				
CAS No	Name			REACH registration number
64-17-5	ethanol			01-2119457610-43
68424-85-1	Quaternary chlorides	ammonium compounds, benzyl-C12-C16-alkyl	dimethyl,	05-2114132022-72

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.

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

Eye rinsing with water carefully while protecting unhurt eye. 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

No information available.

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 Product does not burn, fire-extinguishing activities according to surrounding. Foam Dry fire-extinguishing substance Dry powder



Carbon dioxide sand

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible. Nitrogen gases (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride (HCI)

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

No information available.

For non-emergency personnel

Use personal protective clothing. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Collect contaminated water / firefighting water separately. 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. sand, sawdust). 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

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

Protect from heat and direct solar radiation.

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

Safety goggles

SECTION 9: Physical and chemical properties

Appearance liquid		Colour blue		Odour characteristic		
Odour threshold No information available.						
Increase the altheorem		tel information				
Important health, safety a	ind environmen	tai information				
important nealth, safety a	Value	Temperature	at	Method	Remark	
pH value			at 100 g/l	Method potentiometric	Remark	

BAYROL

your pool & spa water expert

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	Value	Temperature	at	Method	Remark
Melting point / Freezing point	No informatio	on available.			
Flash point	71 °C			DIN EN 22719 / ISO 2719	
Vapourisation rate	No informatio	on available.			
Flammable (solid)	No informatio	on available.			
Flammability (gas)	No informatio	on available.			
Ignition temperature	No informatio	on available.			
Self ignition temperature	No informatio	on available.			
Lower explosion limit	No informatio	on available.			
Upper explosion limit	No informatio	on available.			
Vapour pressure	No informatio	on available.			
Relative density	0,99 g/cm3	20 °C		aerometric	
Vapour density	No information	on available.			
Solubility in water					multimiscible
Solubility/other	No informatio	on available.			
Partition coefficient n- octanol/water (log P O/W)	No informatio	on available.			
Decomposition temperature	No informatio	on available.			
Viscosity	No informatio	on available.			
Solvent concentration	3,3 %				
Oxidising properties No information available.					
Explosive properties No information available.					
9.2. Other information No information available.					



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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 acids, alkalies and oxidising agents.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide. Nitrous oxides (NOx)

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	ca. 1000 mg/kg	rat		Information concerns to main component.
LD50 acute dermal	ca. 6000 mg/kg	rat		
Irritability skin	corrosive			
Irritability eye	risk of strong eye injuries			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation			
Mutagenicity	No data available						
Reproduction- Toxicity	No data available	No data available					
Carcinogenicity	No data available						

Experiences made from practice

Corrosive effect on skin and mucous membrane.

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



SECTION 12: Ecological information

12.1. Toxicity

-	Value	Species	Method	Validation		
Daphnia	EC50 0,016 mg/l (48 h)	Daphnia magna				
12.2. Persiste Physico-cher	ence and degradability nical					
degradability	The product can be lan sludge.	The product can be largely eliminated from the water by abiotic processes, e.g. adsorption to activated sludge.				
Biological degradability	> 90 %		OECD 303A			
	The product is readily	The product is readily biodegradable to OECD criteria.				
12.3. Bioaccu No informatior	imulative potential n available.					
12.4. Mobility No informatior						
	of PBT and vPvB assessment es in the mixture do not meet the	PBT/vPvB criteria acco	ording to REACH, anne	əx XIII.		
Behaviour in When low con	dverse effects sewage plant icentrations are discharged corre- on activity of activated sludge is n		ical sewage treatment	plants, interference with		
General regu	lation					

Product is not allowed to be discharged into the ground water or aquatic environment.

Marine pollutant (according to IMDG-code)

The ecological figures refer to undiluted 100% pure substance.

The information to ecology refers to main component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations. There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the

Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

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	1760	1760	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N. O.S. (Quaternary ammonium compounds, benzyl-C12-C16- alkyldimethyl, chlorides)	CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12- C16-alkyldimethyl, chlorides)	Corrosive liquid, n.o.s. (Quaternary ammonium compounds, benzyl-C12- C16-alkyldimethyl, chlorides)
14.3. Transport hazard class(es)	8	8	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) 8 tunnel restriction code E Classification code C9

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **Authorizations** PL: 4739/12

Other regulations (EU)

Please note: Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace. Biocide directive (98/8/EC).

VOC standard VOC content

3,3 %

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. Biozide sicher verwenden. Vor Gebrauch stets Kennzeichnung und Produktinformation lesen.

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: 5.1



Sources of key data used

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

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 11 Highly flammable.

-?-

R 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H 412

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H400 Very toxic to aquatic life.