

# Material Safety Data Sheet

Golden Coast



## Legal Disclaimer

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as a warranty, express or implied. In all cases it is the responsibility of the users to determine the applicability of such information or the suitability of any products for their own particular purpose.

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## 1 IDENTIFICATION OF PRODUCTS

**Name of Product:** Bayroklar Duo Tabs  
**Product Code:** 20 10 553 045 4Kg  
**Recommended intended Purpose(s):** Algicide for treatment of pool water.

## 2 HAZARD IDENTIFICATION

**Classification:**  
N; R51/53

**R-phrases:**  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 COMPOSITION

### Hazardous ingredients:

CAS No.	EC No.	Name	Concentration	Classification
16828-12-9	233-135-0	Aluminium Sulphate	< 5	Xi R41
25988-97-0		Polyquaternary ammonium compounds	9	N R50/53; Xn R22

## 4 FIRST AID MEASURES

**General information:**  
Remove contaminated soaked clothing immediately.

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

**In case of eye contact:**  
In case of contact with eyes, rinse thoroughly with water.  
Refer to medical treatment.

**In case of ingestion:**  
If swallowed by mistake, drink plenty of water and seek medical treatment.

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## 5 FIRE FIGHTING MEASURES

### Suitable extinguishing media:

Water

Foam

Dry fire-extinguishing substance

Carbon dioxide

Sand

### Special protective equipment for fire fighters:

Wear full protective clothing.

### Additional information:

Cool endangered containers with water spray jet.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

### Environmental precautions:

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds etc.

### Methods for cleaning up:

Take up with absorbent material.

Flush away residues with water.

## 7 HANDLING AND STORAGE

### Advice on safe handling:

No special measures necessary if used correctly.

### Advice on protection against fire and explosion:

The product is not combustible.

No special measures necessary.

### 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.

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## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 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.

### General protective measures:

Avoid contact with the eyes.

### Hygiene measures:

Do not eat or drink when working.

Wash hands before breaks and after work.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Tablet

**Colour:** Blue

**Odour:** Characteristic

### Important health, safety and environmental information:

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 7	20 °C	10 g/l	potentiometric	
Solubility in water					multimiscible

## 10 STABILITY AND REACTIVITY

**Materials to avoid:** Reactions with strong oxidising agents.

## 11 TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitisation:

	Value/Validation	Species	Method	Remark
LD 50 acute oral	> 5000 mg/kg	rat		
Irritability eye	low irritant			

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## 12 ECOLOGICAL INFORMATION

### Data on elimination (persistence and degradability):

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	The product can be largely eliminated from the water by abiotic processes, e.g. adsorption to activated sludge.			

### Ecotoxicological effects:

	Value	Species	Method	Validation
<b>Fish</b>	LC50 3, 8 mg/l (96 h)	Brachidanio rerio	OECD 203	
<b>Daphnia</b>	EC50 1, 2 mg/l (48 h)	Daphnia magna	OECD 202	
<b>Algae</b>	EC50 1, 5 g/m <sup>3</sup> (72 h)	Scenedesmus subspicatus	OECD 201	
<b>Bacteria</b>	EC50 13,8 mg/l (18 h)	Pseudomonas putida	OECD 209	

### Behaviour in sewage plant:

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

### General regulation:

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

## 13 DISPOSAL CONSIDERATIONS

Waste code No.	Name of waste
07 06 99	Wastes not otherwise specified

### Recommendations for the product:

In accordance with regulations for special waste, must be taken to a special waste disposal.

### Recommendations for packaging:

Untampered packaging may be taken for recycling.

### Recommended cleansing agent:

Water

## 14 TRANSPORT INFORMATION

### Land and inland navigation transport ADR/RID:

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polyquaternary ammonium compounds), 9, III

### Marine transport IMDG:

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polyquaternary ammonium compounds), 9, III

### Air transport ICAO/IATA-DGR:

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Polyquaternary ammonium compounds), 9, III

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## 15 REGULATORY INFORMATION

### Remarks for classification:

The product is classified and labeled in accordance with EC directives/German regulations on dangerous substances.

### Classification:

**N** Dangerous for the environment

### R-phrases:

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases:

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

29/56 Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

## 16 OTHER INFORMATION

### 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-phrases specified in chapter 2 (not the classification of the formulation!)

R 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### NOTE:

THIS DATA SHEET DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION.

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