



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Name of product</b>	<b>Duo Tab (Comp.1: Bayroklar Tab.)</b> Rez.-Nr. 410502
<b>Manufacturer/distributor</b>	BioLab UK Unit 4, Andoversford Ind. Est., Andoversford, Cheltenham, Glos. GL54 4LB Phone 01242820969
<b>Emergency advice</b>	National Poisons Information Centre, Birmingham Centre, City Hospital, Birmingham B18 7QH Phone (+44) 121 507 4123

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

Product for disinfection and oxidation of pool water. Contains: Triplesalt of potassium peroxymonosulphate, potassium bisulphate, potassium sulphate

### Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
70693-62-8	274-778-7	Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)	> 90	C R34; Xn R22

## 3. HAZARDS IDENTIFICATION

### R-phrases

22	Harmful if swallowed.
41	Risk of serious damage to eyes.

## 4. FIRST AID MEASURES

### General information

Remove contaminated soaked clothing immediately and dispose it safely.  
Take affected person into fresh air.

### 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

Medical treatment by eye specialist.  
In case of contact with eyes rinse thoroughly with water.

### In case of ingestion

Call for a doctor immediately.  
Rinse out mouth and give plenty of water to drink.



## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

water

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire formation of dangerous gases possible.

### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions such as

Avoid dust formation.

Use personal protective clothing.

### Environmental precautions such as

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

### Methods for cleaning up such as

Flush away residues with water.

Take up mechanically and send for disposal.

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## 7. HANDLING AND STORAGE

### Advice on safe handling

No special measures necessary if used correctly.

Do not return residues to the storage containers.

### Advice on protection against fire and explosion

The product is not combustible, but supports burning.

### Advice on storage compatibility

Do not store with combustible materials.

Do not store together with food.

### Further information on storage conditions

Keep container dry, tightly closed and store at cool place.

Do not keep at temperatures above 30°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Respiratory protection

In case of dust formation wear micro dust mask.

### 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.

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**Hygiene measures**

At work do not eat, drink and smoke.

Wash hands before breaks and after work.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Form**  
tablet**Colour**  
white**Odour**  
odourless**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	2 - 3	20 °C	10 g/l	potentiometric	
<b>Solubility in water</b>	250 g/l	20 °C			

**10. STABILITY AND REACTIVITY****Conditions to avoid**

Reactions with combustible substances.

Reactions with impurities.

Reactions with reducing agents.

Reactions with alkalis.

**Hazardous decomposition products**

Sulphur dioxide

Oxygen

**Thermal decomposition**

Remark Exothermic decomposition &gt;70 °C

**11. TOXICOLOGICAL INFORMATION****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>	1323 mg/kg	rat		
<b>LD 50 acute dermal</b>	> 11000 mg/kg	rabbit		
<b>Irritability skin</b>	irritant			
<b>Irritability eye</b>	irritant - risk of strong eye injuries			
<b>Sensitization skin</b>	non-sensitising			

**Experiences made from practice**

Irritates mucous membranes.



## 12. ECOLOGICAL INFORMATION

### General regulation

In sewage the product decomposes into potassium bisulphate and oxygen

## 13. DISPOSAL CONSIDERATIONS

### Waste code No.

06 03 99

### Name of waste

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

Uncontaminated packaging may be taken for recycling.

### Recommended cleansing agent

Water

## 14. TRANSPORT INFORMATION

### Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)), 8, III

### Marine transport IMDG/GGV See

UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)), 8, III

### Air transport ICAO/IATA

UN 3260 Corrosive solid, acidic, inorganic, n.o.s. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)), 8, III

### Transport/further informations

Regulations concerning free quantities are to be observed.

LQ 24 (6 kg)

## ! 15. REGULATORY INFORMATION

### Remarks for classification

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

### ! Classification

Xn Harmful

### R-phrases

22 Harmful if swallowed.  
41 Risk of serious damage to eyes.

### S-phrases

17 Keep away from combustible material.  
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.  
39 Wear eye/face protection.  
46 If swallowed, seek medical advice immediately and show this container or label.  
56 Dispose of this material and its container to 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



# BAYROL

Safety data-sheet (91/155 EEC)

Printed 28.07.2005

Revision 15.07.2005

**Duo Tab (Comp.1: Bayroklar Tab.)**

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**Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)**

R 22 Harmful if swallowed.

R 34 Causes burns.