



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

<b>Name of product</b>	<b>Multilong-Tablet for continuous disinfection</b> Rez.-Nr. 414848
<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, oxidation and flocculation of pool water

### Hazardous ingredients

CAS-No.	EC-No.	Name	[%]	Classification
16828-12-9	233-135-0	Aluminiumsulfat 14-Hydrat	< 10	Xi R41
87-90-1	201-782-8	Trichloroisocyanuric acid, dry (symclosene)	> 70	O, R8; Xn, R22; R31; Xi, R36/37; N, R50 53

## 3. HAZARDS IDENTIFICATION

### R-phrases

22	Harmful if swallowed.
31	Contact with acids liberates toxic gas.
36/37	Irritating to eyes and respiratory system.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 4. FIRST AID MEASURES

### General information

Remove contaminated soaked clothing immediately.  
Take affected person into fresh air.

### In case of inhalation

Remove the casualty into fresh air and keep him immobile.  
Refer for medical treatment.

### 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

Call for a doctor immediately.  
If swallowed give water to drink.



## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Large quantities of water  
Carbon dioxide  
sand

### Extinguishing media which must not be used for safety reasons

Small quantities of water

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

Nitrogen trichloride

In the event of fire the following can be released:

Chlorine (Cl<sub>2</sub>)

### 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

Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

### Environmental precautions such as

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

### Methods for cleaning up such as

Take up mechanically and send for disposal.

### Additional Information

Neutralize active chlorine with suitable materials (Sulphite, Thiosulphate or hydrogen peroxide aqueous solution)

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## 7. HANDLING AND STORAGE

### Advice on safe handling

Use only in well-ventilated areas.

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking  
Keep at distance of acids, reducing agents and organic substances (e.g. wood, paper, fat).  
Avoid entering of water in shortage.

### Requirements for storage rooms and vessels

Keep only in original container.

### Advice on storage compatibility

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

### Further information on storage conditions

Keep container tightly closed.  
Storage: cool and dry

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m <sup>3</sup> ]	[ml/m <sup>3</sup> ]	Remark
007782-50-5	chlorine	MAK	1,5	0,5	Y

### 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

At work do not eat, drink and smoke.

Wash hands before breaks and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Colour	Odour
tablet	white	typical, pungent

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	2,8	20 °C	10 g/l	potentiometric	
decomposition point	225 °C				
Solubility in water	17,5 g/l	25 °C			

## ! 10. STABILITY AND REACTIVITY

### Conditions to avoid

Reactions with combustible substances.

Reactions with acids.

Reactions with impurities.

### ! Materials to avoid

Evolution of chlorine under influence of acids.

### ! Hazardous decomposition products

Nitrogen trichloride

Chlorine

### Additional information

Product may cause bleaching textiles, liners, paintings etc. Chlorine gas may decompose metals and is corrosive.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitization



# BAYROL

Safety data-sheet (91/155 EEC)

Printed 18.03.2005

Revision 16.02.2005

**Multilong-Tablet for continuous disinfection**

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>	1450 mg/kg	rat		
<b>Irritability eye</b>	irritant			
<b>Experiences made from practice</b> Sensitization through skin contact possible.				

## ! 12. ECOLOGICAL INFORMATION

<b>Ecotoxicological effects</b>	Value	Species	Method	Validation
<b>Fish</b>	LC50 < 1 mg/l (96 h)	Lepomis macrochirus		

### ! General regulation

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste code No.</b>	<b>Name of waste</b>
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

### 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 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trichloroisocyanuric acid, dry (Symclosen)), 9, III

### Marine transport IMDG/GGV See

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trichloroisocyanuric acid, dry (Symclosen)), 9, III

### Air transport ICAO/IATA

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Trichloroisocyanuric acid, dry (Symclosen)), 9, III

## 15. REGULATORY INFORMATION

### Remarks for classification

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

### Classification

<b>Xn</b>	Harmful
<b>N</b>	Dangerous for the environment

### R-phrases

22	Harmful if swallowed.
31	Contact with acids liberates toxic gas.
36/37	Irritating to eyes and respiratory system.
50/53	Very 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.
29/56	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
46	If swallowed, seek medical advice immediately and show this container or label.
8	Keep container dry.

## Special labelling for certain preparations

Warning! Do not use together with other products. May release dangerous gases (chlorine).

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## 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 31 Contact with acids liberates toxic gas.  
R 36/37 Irritating to eyes and respiratory system.  
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.  
R 8 Contact with combustible material may cause fire.