

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

<b>Name of product</b>	<b>Puripool Super</b> Rez.-Nr. 410693
<b>Manufacturer/distributor</b>	BAYROL Deutschland GmbH Lochhamer Straße 29, D-82152 Planegg Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-241
<b>Advice</b>	Labor Phone +49 (0) 89 85701-0
<b>Emergency advice</b>	Giftnotruf München (oder jedes andere Giftinformationszentrum) Phone +49 (0) 89 19240

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

Winter cleaning agent for outdoor pools. Contains: Polyquaternary ammonium compounds, polycarbonic acid, auxiliary materials.

### Hazardous ingredients

CAS-No.	EC-No.	Name	Concentration	Classification
25988-97-0		Polyquaternary ammonium compounds	< 25	N R50/53

## 3. HAZARDS IDENTIFICATION

### R-phrases

51/53 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.

### 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.

## 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.



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**Additional information**

Cool endangered containers with water spray jet.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions such as**

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

**Environmental precautions such as**

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

**Methods for cleaning up such as**

Take up with absorbent material.  
Flush away residues with water.

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## !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.

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## !9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**  
liquid

**Colour**  
blue

**Odour**  
characteristic

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	2,1	20 °C	10 g/l	potentiometric	
<b>Density</b>	1,12 g/cm <sup>3</sup>	20 °C		aerometric	
<b>Solubility in water</b>					multimiscible

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

Reactions with strong oxidising agents.

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

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

**! 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 1,8 mg/l (96 h)	Brachidanio rerio	OECD 203	
<b>Daphnia</b>	EC50 0,47 mg/l (48 h)	Daphnia magna	OECD 202	
<b>Algae</b>	EC50 0,71 g/m <sup>3</sup> (72 h)	Scenedesmus subspicatus	OECD 201	
<b>Bacteria</b>	EC50 4,85 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 discharge 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**

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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyquaternary ammonium compounds), 9, III

**Marine transport IMDG/GGV See**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyquaternary ammonium compounds), 9, III

**Air transport ICAO/IATA**

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Polyquaternary ammonium compounds), 9, III

**Transport/further informations**

Regulations concerning free quantities are to be observed.

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### 15. REGULATORY INFORMATION

**Remarks for classification**

The product is classified and labelled 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.

37/39 Wear suitable gloves and eye/face protection.

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