

Pool-i.d. GmbH
76344 Eggenstein-Leopoldshafen

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

DPD4-Photometer (Chargen 9001 / 1001)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Reagent for analysis of water

1.3 Details of the supplier of the safety data sheet

Company	Pool-i.d. GmbH Daimlerstrasse 20 76344 Eggenstein-Leopoldshafen / GERMANY Phone: +49(0)721-782029-0 Fax: +49(0)721-782029-11 Homepage: www.pool-id.com E-mail: info@pool-id.com
Responsible	Schroeder@chemiebuero.de

1.4 Emergency phone

+49 (0) 89-19240 (24h)

2 Hazards identification

2.1 Classification of the substance or mixture

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

not applicable

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

T, R 60-61

2.2 Label elements

Hazard symbols



Toxic

Contains

Boric acid

R-phrases

R 60: May impair fertility.
R 61: May cause harm to the unborn child.

S-phrases

S 53: Avoid exposure - obtain special instructions before use.
S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling

Only for industry consumers.

2.3 Other hazards

Physico-chemical hazards

See chapter 10.

Human health dangers

See chapter 11.

Environmental hazards

See chapter 12.

Other hazards

Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.

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3.2 Mixtures

Range [%]	Substance
30 - 60	Boric acid
	CAS: 10043-35-3, EINECS/ELINCS: 233-139-2, EU-INDEX: 005-007-00-2
	GHS/CLP: Repr. 1B, H360
	EEC: T R60-61

Comment on component parts SVHC (Candidate List of Substances of Very High Concern for authorisation) $\geq 0,1\%$
CAS 10043-35-3 - Boric acid
For the wording of the listed risk phrases refer to section 16.

4 First aid measures**4.1 Description of first aid measures**

General information	Change powdered clothing immediately.
Inhalation	Ensure supply of fresh air. Supply with medical care.
Skin contact	In case of contact with skin wash off immediately with soap and water. Supply with medical care.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Rinse out mouth and give plenty of water to drink. Induce the patient to vomit of his own accord only if fully conscious. Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

Spasms
Drop in temperature
Agitation
Nausea, vomiting.
Tiredness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
Extinguishing media that must not be used	not applicable

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Hydrogen ionide (HI).
Nitrogen oxides (NOx).
Phosphorus oxides (POx).
Carbon monoxide (CO)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.
Use personal protective equipment.

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6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.
Provide suitable vacuuming at the processing area.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.
Keep container in a well-ventilated place.
Keep container tightly closed.
Store in a dry place.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374). Nitrile rubber, >480 min (EN 374).
Skin protection	Long-sleeved work clothes.
Other	Do not inhale dust. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Remove soiled clothing. Use barrier skin cream.
Respiratory protection	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P3.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See Chapter 6+7.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	tablet
Color	white
Odor	odourless
Odour threshold	not applicable
pH-value	not determined
pH-value [1%]	6,3 (1g/100ml H ₂ O)
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	not applicable
Bulk density [kg/m ³]	not determined
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong alkalies and oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

See chapter 10.3.

10.6 Hazardous decomposition products

In the event of fire: See chapter 5.

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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Boric acid, CAS: 10043-35-3

LC50, inhalative, Rat: > 2,03 mg/l.

LD50, oral, Rat: 2660 mg/kg.

LD50, dermal, Rat: > 2000 mg/kg.

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity —
single exposure not determined

Specific target organ toxicity —
repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity Repr. Cat. 2

Carcinogenicity not determined

General remarks

The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

Boric acid, CAS: 10043-35-3

EC50, (48h), Daphnia magna: 133 mg/l.

LC50, (96h), Oncorhynchus mykiss: 50-100 mg/l.

12.2 Persistence and degradability

Behaviour in environment
compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

Ecological data are not available.

Do not discharge product unmonitored into the environment or into the drainage.

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13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.

Waste no. (recommended)

060399

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR

NO DANGEROUS GOODS

Classification according to IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Classification according to IATA

NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach);
1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other informations

R-phrases (Chapter 03)

R 60: May impair fertility.
R 61: May cause harm to the unborn child.

Hazard statements (Chapter 03)

H360 May damage fertility or the unborn child.

Observe employment restrictions for people

Observe employment restrictions for women of child-bearing age.

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

VOC (1999/13/CE)

not applicable

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Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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