

Pool-i.d. GmbH
76344 Eggenstein

Date printed 15.03.2013, Revision 15.03.2013

Version 01

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Phosphate HR No. 2 Photometer

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

1.2.1 Relevant uses

Reagent for analysis of water

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Pool-i.d. GmbH

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Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Advisory body

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

see SECTION 16

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

Hazard symbols



Toxic

R-phrases

R 23: Toxic by inhalation.

The product is classified and required to be labelled in accordance with EC-Directives

2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Toxic

Contains:

Ammonium vanadate

R-phrases

R 23: Toxic by inhalation.

S-phrases

S 1/2: Keep locked up and out of reach of children.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

2.3 Other hazards

Physico-chemical hazards

Corrosive on contact with water or humidity.

Environmental hazards

The product/the substance has the Water Hazard Class 2.

Other hazards

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

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SECTION 3: Composition / Information on ingredients

3.1 Product-type:

The product is a mixture.

Range [%]	Substance
1 - <5	Sulphamic acid
	CAS: 5329-14-6, EINECS/ELINCS: 226-218-8, EU-INDEX: 016-026-00-0
	GHS/CLP: Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - Aquatic Chronic 3 - H412
	EEC: Xi, R 52/53-36/38
1 - <3	Ammonium vanadate
	CAS: 7803-55-6, EINECS/ELINCS: 232-261-3
	GHS/CLP: Acute Tox. 1 - H330 - Acute Tox. 3 - H301 - Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - STOT SE 3 - H335
	EEC: T+, R 26-25-36/37/38

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change soaked clothing immediately.

Inhalation

Consult a doctor immediately.

Remove the victim into fresh air and keep him calm.

In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

Skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion

Supply with medical care.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

Sulphur oxides (SO_x).

Nitrogen oxides (NO_x).

Metallic oxides.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use breathing apparatus if exposed to dust.
Use personal protective equipment.

6.2 Environmental precautions

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

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 SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid the formation and deposition of dust.
Use only in well-ventilated areas.

Remove soiled clothing.
Do not eat, drink, smoke or take drugs at work.
Keep away from food and drink.
Wash face and/or hands before break and end of work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide acid-resistant floor.
Do not store together with oxidizing agents.
Do not store with alkalis.
Do not store together with food and animal food/diet.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.
Keep container tightly closed.
Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

not applicable

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. To pay attention to dust limit value (ACGIH-2011: 10 mg/m ³ particle inhalable; 3 mg/m ³ particle respirable). Using suitable discharges or exhaust ventilation.
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).
Skin protection	Protective clothing.
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.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Respiratory protection in the case of dust formation. short term: filter apparatus, filter P1
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	tablet
Color	yellow
Odor	characteristic
Odour threshold	not determined
pH-value	3,5 (4,8 g/l)
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	completely miscible
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 determined
Decomposition temperature	not determined

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with alkalies (lyes).
Reactions with metals.
Corrosive on contact with water or humidity.

10.4 Conditions to avoid

Contact with moisture.
Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <5	Sulphamic acid, CAS: 5329-14-6
	LD50, oral, Rat: 1600 mg/kg (IUCLID).
1 - <3	Ammonium vanadate, CAS: 7803-55-6
	LD50, subkutane, Rat: 23 mg/kg.
	LC50, inhalative, Rat: 7,8 µg/l/4h.
	LD50, intraperitoneal, Rat: 18 mg/kg.
	LD50, dermal, Rat: 2102 mg/kg.
	LD50, oral, Rat: 58,1 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 (CAS 7803-55-6, Lit.) - Laboratory experiments have shown mutagenic effects.

(CAS 5329-14-6, IUCLID) - Ames-test: negative.

(CAS 5329-14-6, IUCLID) - Micronucleus test (OECD 474), negative

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks May cause irritation of eye and skin.
May cause irritation of respiratory organs.
Can be absorbed through the skin.

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. The product was classified on the basis of the calculation procedure of the preparation directive.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <5	Sulphamic acid, CAS: 5329-14-6
	LC50, (96h), Pimephales promelas: 70,3 mg/l (IUCLID).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.
No classification on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

060313*
060502*
160303*

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*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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14.2 UN proper shipping name

Transport by land according to ADR/RID UN 3290 Toxic solid, corrosive, inorganic, n.o.s. (Ammonium metavanadate, Sulfamic acid) 6.1 & 8 II

- Classification Code

TC4

- Label



- ADR LQ

0,5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)

UN 3290 Toxic solid, corrosive, inorganic, n.o.s. (Ammonium metavanadate, Sulfamic acid) 6.1 & 8 II

- Classification Code

TC4

- Label



Marine transport in accordance with IMDG

UN 3290 Toxic solid, corrosive, inorganic, n.o.s. (Ammonium metavanadate, Sulfamic acid) 6.1 & 8 II

- EMS

F-A, S-B

- Label



- IMDG LQ

0,5 kg

Air transport in accordance with IATA

UN 3290 Toxic solid, corrosive, inorganic, n.o.s. (Ammonium metavanadate, Sulfamic acid) 6.1 & 8 II

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 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 (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits (Second edition, published December 2011).
CHIP 3/ CHIP 4

- Observe employment restrictions for people

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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15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Hazard pictograms



Signal word

DANGER

Classification procedure

Classification according to conversion table Annex VII 1272/2008/EC

16.2 R-phrases (SECTION 3)

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 36/38: Irritating to eyes and skin.

R 26: Very toxic by inhalation.

R 25: Toxic if swallowed.

R 36/37/38: Irritating to eyes, respiratory system and skin.

16.3 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H330 Fatal if inhaled.

H301 Toxic if swallowed.

H335 May cause respiratory irritation.

16.4 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

Modified position

none

16.5 Other information

Customs Tariff

not determined

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