

Pool-i.d. GmbH
76344 Eggenstein

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

Phosphate HR Comparator

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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Technical information

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Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Advisory body

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

2 Hazards identification

2.1 Classification of the substance or mixture

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

Hazard pictograms



Signal word

DANGER

Acute Tox. 4 - H302 Harmful if swallowed.

Eye Dam. 1 - H318 Causes serious eye damage.

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

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

Hazard symbols



Harmful

R-phrases

R 22: Harmful if swallowed.

R 41: Risk of serious damage to eyes.

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2.2 Label elements

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

Hazard symbols



Harmful

Contains:

Ammonium chloride

R-phrases

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

S-phrases

S 2: Keep out of the reach of children.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 39: Wear eye/face protection.
S 46: If swallowed, seek medical advice immediately and show this container or label.

Special labelling

not applicable

2.3 Other hazards

Physico-chemical hazards

No particular hazards known.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

none

3 Composition / Information on ingredients

3.1 Product-type:

The product in question is a mixture.

Range [%]	Substance
40 - <60	Sodium hydrogensulphate
	CAS: 7681-38-1, EINECS/ELINCS: 231-665-7, EU-INDEX: 016-046-00-X
	GHS/CLP: Eye Dam. 1 - H318
	EEC: Xi, R 41
25 - <40	Ammonium chloride
	CAS: 12125-02-9, EINECS/ELINCS: 235-186-4, EU-INDEX: 017-014-00-8
	GHS/CLP: Acute Tox. 4 - H302 - Eye Irrit. 2 - H319
	EEC: Xn, R 22-36
1 - <20	Adipic acid
	CAS: 124-04-9, EINECS/ELINCS: 204-673-3, EU-INDEX: 607-144-00-9
	GHS/CLP: Eye Irrit. 2 - H319
	EEC: Xi, R 36
0,1 - <1	Ammonium vanadate
	CAS: 7803-55-6, EINECS/ELINCS: 232-261-3
	GHS/CLP: Acute Tox. 4 - H332 - Acute Tox. 3 - H301 - Eye Irrit. 2 - H319 - STOT SE 3 - H335
	EEC: T, R 20-25-36/37

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
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

No dangerous reactions known if used as directed.

Inhalation

Ensure supply of fresh air.

Skin contact

In case of contact with skin wash off with warm water.

Consult a doctor if skin irritation persists.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

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4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

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 Full water jet

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SO_x).
Nitrogen oxides (NO_x).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

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

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

7 Handling and storage

7.1 Precautions for safe handling

Avoid the formation and deposition of dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store with alkalies.
Do not store together with metals.
Keep container tightly closed.
Store in a dry place.

7.3 Specific end use(s)

See product use, section 1.2

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8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
25 - <40	Ammonium chloride
	CAS: 12125-02-9, EINECS/ELINCS: 235-186-4, EU-INDEX: 017-014-00-8
	Long-term exposure: 10 mg/m ³
	Short-term exposure (15-minute): 20 mg/m ³
1 - <20	Adipic acid
	CAS: 124-04-9, EINECS/ELINCS: 204-673-3, EU-INDEX: 607-144-00-9
	Long-term exposure: 5 mg/m ³ , ACGIH 2006

8.2 Exposure controls

Additional advice on system design	not applicable
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Butyl rubber, >480 min (EN 374).
Skin protection	not applicable
Other	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. Wash hands before breaks and after work. Use barrier skin cream.
Respiratory protection	not applicable
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See section 6+7.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	tablet
Color	orange brown
Odor	characteristic
Odour threshold	not determined
pH-value	1,9 (5,4 g/l) Aqueous solution
pH-value [1%]	not determined
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/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m ³]	not determined
Solubility in water	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

No informations available.

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).
Reactions with acids.

10.4 Conditions to avoid

Warming
Contact with moisture.

10.5 Incompatible materials

See section 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <20	Adipic acid, CAS: 124-04-9 LC50, inhalative, Rat: >7,7 mg/l (4h) (IUCLID). LD50, oral, Rat: 5560 mg/kg (IUCLID).
40 - <60	Sodium hydrogensulphate, CAS: 7681-38-1 LD50, oral, Rat: 2490 mg/kg.
25 - <40	Ammonium chloride, CAS: 12125-02-9 LD50, oral, Rat: 1650 mg/kg (IUCLID).

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	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.
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.

12 Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <20	Adipic acid, CAS: 124-04-9 LC50, (96h), <i>Leuciscus idus</i> : 230 mg/l. EC50, (24h), <i>Daphnia magna</i> : 85,7 mg/l. EC50, (72h), <i>Scenedesmus subspicatus</i> : 31,3 mg/l.
40 - <60	Sodium hydrogensulphate, CAS: 7681-38-1 EC50, (48h), <i>Daphnia magna</i> : 190 mg/l.
25 - <40	Ammonium chloride, CAS: 12125-02-9 LC50, (96h), <i>Salmo clarki</i> : 123,8 - 166,6 mg/l (IUCLID). EC50, (48h), <i>Daphnia magna</i> : > 100 mg/l (Lit.).

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

not applicable

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12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.

No classification on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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

For recycling, consult manufacturer.

Waste no. (recommended)

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)

150102

150107

14 Transport information

14.1 UN number

See section 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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

not applicable

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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 (2012).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

not applicable

16 Other informations

16.1 R-phrases (section 03)

R 41: Risk of serious damage to eyes.
R 22: Harmful if swallowed.
R 36: Irritating to eyes.
R 20: Harmful by inhalation.
R 25: Toxic if swallowed.
R 36/37: Irritating to eyes and respiratory system.

16.2 Hazard statements (section 03)

H318 Causes serious eye damage.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H301 Toxic if swallowed.
H335 May cause respiratory irritation.

16.3 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

16.4 Other informations

Observe employment restrictions for people	yes
VOC (1999/13/CE)	not applicable
Modified position	none

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