

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1

Language: EN

Revision date: 10.06.2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sulfat Photometer

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

Identified uses of the substance or mixture: Reagent for water analysis

Not recommended uses of the substance or mixture: Other

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Pool-i.d. GmbH

Daimlerstraße 20
D 76344 Eggenstein-Leopoldshafen

Telephone: +49 (0) 721 782 029 0

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Information contact

Pool-i.d. GmbH

Information Telephone: +49 (0) 721 782 029 0

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E-mail (competent person): info@pool-id.com

Website: http://www.pool-id.com/

1.4 Emergency telephone number

Poison emergency call Munich

Telephone: +49 (0) 89 19 240

Toxicology department, II.Med. Hospital of the Technical University of Munich

1.5 Dept. responsible for information

Laboratory

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008:

Acute Tox. 4; H302

Directive 67/548/EEC:

Xn; R22

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal word: GHS07
Warning

H phrases: 302 Harmful if swallowed.

P phrases: 264 Wash with water and soap thoroughly after handling.

270 Do not eat, drink or smoke when using this product.
 301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 330 Rinse mouth.
 501 Dispose of contents/container to waste disposal.

2.2.2 Labelling according to Directive 67/548/EEC

Hazard symbols:



R phrases: Xn Harmful.
 22 Harmful if swallowed.
S phrases: 1/2 Keep locked up and out of the reach of children.
 13 Keep away from food, drink and animal feedingstuffs.
 20/21 When using do not eat, drink or smoke.
 46 If swallowed, seek medical advice immediately and show this container or label.

2.3 Other hazards

See attached safety data sheets and/or usage instructions.

3. Composition/information on ingredients

3.1 Chemical characterization of the substance or mixture

Tablets, among others, with the following components.

3.2 Composition of the substance or mixture

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
Barium chloride dihydrate	233-788-1	10326-27-9	056-004-00-8		10 - 25 wt-%	Acute Tox. 4; H332 Acute Tox. 3; H301	Xn; R20 T; R25
Adipic acid	204-673-3	124-04-9	607-144-00-9		< 10 wt-%	Eye Irrit. 2; H319	Xi; R36

Ingredients with EC exposure limits

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:

(The wording of the listed risk phrases is given in Chapter 16)

3.3 Additional information

none

4. First aid measures

4.1 Description of first aid measures

General information: In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
Following inhalation: Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.
After skin contact: After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.
Following eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After ingestion: Rinse mouth immediately and drink large quantities of water. Do not induce

vomiting. No administration in cases of unconsciousness or cramps. Immediately get medical attention.

Self-protection: No special measures are necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No symptoms known up to now.

Nature of Hazard: No risks worthy of mention.

4.3 Indication of any immediate medical attention and special treatment needed

Emergency aid: Let water be swallowed in little sips (dilution effect). Do not induce vomiting.

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 General information

Extinguishing materials should be selected according to the surrounding area.

5.2 Extinguishing media

Suitable: Water fog. Carbon dioxide (CO₂). Foam. Dry extinguishing powder.

Unsuitable: High power water jet.

5.3 Special hazards arising from the substance or mixture

Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

5.4 Advice for fire fighters

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Guide people to safety.

6.2 Environmental precautions

No special environmental protection measures are necessary.

6.3 Methods and materials for containment and cleaning up

Remove mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

See protective measures under point 7 and 8.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Avoid contact with eyes.

Technical measures

No special technical protective measures are necessary.

Precautions against fire and explosion

Usual measures for fire prevention.

Additional information

none

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

No special technical protective measures are necessary.

Packaging materials

Keep/Store only in original container.

Requirements for storerooms and containers

Keep the packing dry and well sealed to prevent contamination and absorption of dampness.

Information about storing together in storage facility

Keep away from food, drink and animal feedingstuffs.

Further information concerning storage conditions

none

Storage class: 13 Non-combustible solids.

7.3 Specific end use(s)

Observe instructions for use.

8. Exposure controls / personal protection**8.1 Control parameters****8.1.1 Limits for occupational exposure****Exposure limit values**

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

EC exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

8.1.2 DNEL and PNEC values**DNEL-values**

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer

PNEC-values

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

8.1.3 Control-Banding**Control-Banding**

none

8.1.4 Additional information

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

Occupational exposure controls

Provide for sufficient ventilation and punctiform suction at critical points. Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

Chemical handling

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374 Suitable material: PVC (Polyvinyl chloride). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). FKM (fluororubber). Butyl rubber.

Eye protection

Eye protection: not required.

Skin protection

Skin protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

8.3 Exposure scenario

none

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

State of matter: solid: Tablets.
Colour: white
Odour: odourless
Odour threshold: none

Safety relevant basis data

	Parameter	Value	Unit	Remark
Density:				No data available
Package density:				No data available
pH:	at g/l: 10,5	4,5		No data available
Melting point / range:				No data available
Boiling temperature / range:				No data available
Flash point:				none/none
Flammability:				none/none
Lower flammability limit:				not applicable
Upper flammability limit:				not applicable
Explosion hazard:				not explosive.
Lower explosion limit:				not applicable
Upper explosion limit:				not applicable

Ignition temperature:	none/none
Decomposition temperature:	No data available
Oxidizing characteristics:	Not oxidizing.
Vapour pressure:	not applicable
Relative vapour density:	not applicable
Speed of vaporization/evaporation rate:	not applicable
Solubility in water:	easily soluble.
Fat solubility:	insoluble
Solubility in log P O/W (n-octanol / water):	not applicable
Viscosity:	No data available
Solvent separation test:	not applicable
Solvent content:	No data available

9.2 Other information

none

10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

With proper storage and handling the product is stable.

10.3 Possibility of hazardous reactions

none

10.4 Conditions to avoid

moisture. heat.

10.5 Incompatible materials

Oxidizing agents. Reducing agents. Acid. Alkalis (alkalis).

10.6 Hazardous decomposition products

Can be released in case of fire: Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

10.7 Additional information

none

11. Toxicological information

11.1 Information on toxicological effects

Data apply to the principal component.

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Barium chloride dihydrate	10326-27-9	Acute toxicity, oral LD50: 118 mg/kg (Rat.)
Adipic acid	124-04-9	Acute toxicity, oral LD50: > 11000 mg/kg (Rat.)

Specific symptoms in laboratory animals

none

11.2 Irritation and etching

Irritant effect on the skin

mild irritant.

Irritant effect on the eye

mild irritant.

Irritant effect on the respiratory tract

mild irritant.

Etching

not corrosive

11.3 Sensitization

no danger of sensitization.

11.4 Repeated dose toxicity

No information available.

11.5 CMR effects

Carcinogenicity

No indications of human carcinogenicity exist.

Mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

11.6 General remarks

none

Practical experience

none

Other observations

none

Additional information

Data arise from reference works and literature.

12. Ecological information

12.1 Toxicity

Ecological information refers to main component.

Eco toxicity

Substance:	CAS-No.:	Ecotoxicity
Barium chloride dihydrate	10326-27-9	Acute crustacean toxicity LC50: 326 mg/l/96 h ([Gammarus pulex.]) Acute crustacean toxicity LC50: 326 mg/l/96 h ([Echinogammarus berilloni.]
Adipic acid	124-04-9	Acute fish toxicity LC50: 97 mg/l/96 h (Fatheaded Minnow. [Pimephales promelas.]

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.
Organic part of product is bio-degradable.

12.3 Bio accumulative potential

No indication of bio-accumulation potential.

12.4 Mobility in soil

No information available.

Proper Shipping name

-
-

UN/ID-No.: -**Label:** - **Packing Group:** -**Remark:** Not a hazardous material with respect to these transportation regulations.**14.4 Mail**

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information**15.1 Labelling****Hazardous component(s) for labelling**

Barium chloride dihydrate; Adipic acid

Special labelling of particular preparations

Safety data sheet available for professional user on request.

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU-Regulations****Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)**
none**Regulation (EC) No 2037/2000 on substances that deplete the ozone layer**
none**Regulation (EC) No 850/2004 on persistent organic pollutants**
none**Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals**
none**Regulation (EC) No 648/2004 (Detergents regulation)**
none**Restrictions under Title VIII of Regulation (EC) No 1907/2006**
none**National regulations**

Moreover, national legislation has to be observed!

Informations on working limitations
none**Major Accidents Ordinance**
Not subject to StörfallVO.**Storage class according to VCI**
13 Non-combustible solids.**Water Hazard Class according to VwVwS**
1 weak water pollutant (WGK 1)**Technical Instructions on Air Quality Control (TA-Luft)**
Not subject to TA-Luft.

Further regulations, limitations and legal requirements

none

15.3 Chemical safety assessment**For this preparation a chemical safety assessment has been carried out:** -Chemical safety assessments for substances in this mixture were not carried out.

16. Other information**16.1 Wording of the H and R-phrases under paragraph 3****Regulation (EC) No 1272/2008**

- 302 Harmful if swallowed.
- 315 Causes skin irritation.
- 319 Causes serious eye irritation.
- 335 May cause respiratory irritation.

Directive 67/548/EEC

- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.

16.2 Training instructions

none

16.3 Recommended restrictions of use

refer to chapter 1.

16.4 Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

16.5 Documentation of changes

none

16.6 Data sources

Data arise from reference works and literature.

16.7 Key and definitionnone
