

Safety Data Sheet 1907/2006/EG - REACH (GB)

ROWAphos

ROWA Aquaristik GmbH * Heinrich-Hasemeier-Straße 33* D-49076 Osnabrück
 Created: 12.02.2018 Revision: 12.02.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier **ROWA**phos

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

1.2.1 Relevant uses: Chemical raw material / Water treatment

1.2.2 Uses advised against: none known

1.3 Details of the supplier of the safety data sheet

Company: ROWA Aquaristik GmbH
 Heinrich-Hasemeier-Straße 33
 D-49076 Osnabrück
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 Fax: +49 (0) 5 41 / 580 53 57 77
 Homepage: www.rowa-wasser.de
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Address enquiries to

Technical information info@rowa-wasser.de
 Safety Data Sheet service@rowa-wasser.de

1.4 Emergency phone

Company +49 (0) 541 580 53 57 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) 1272/2008]

No classification

2.2 Label elements

The product does not require a hazard warning label in accordance with GHS/CLP-directives.

Hazards symbols none

R-phrases none

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards none

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SECTION 3: Composition / Information on ingredients**Product-type**

This product is a mixture.

Range [%]	Substance
50-60	Iron hydroxide oxide yellow
CAS: 51274-00-1, EINECS/ELINCS: 257-098-5, REG-No.: 01-2119457554-33-xxxx	

Comment on component parts

No dangerous components.

Before the registration of iron hydroxide oxide yellow the following substance-identifiers have been used:

CAS 20344-49-4 / EINECS 243-746-4

Substances of Very High Concern – SVHC:

substances are not contained or are below 0.1 %

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.

In the event of symptoms, seek medical treatment.

Skin contact

When in contact with the skin clean up with soap and water.

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

Rinse out mouth and give plenty of water to drink.

In the event of symptoms, seek for medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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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

none

5.3 Advice for firefighters

Use self-contained breathing apparatus.
 Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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

No special measures necessary.

6.2 Environmental precautions

Do not discharge into 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 within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

The normal safety precautions for handling chemicals must be observed.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Do not store together with acids.

Do not store together with food and animal food/diet.

Recommended storage temperature: room temperature.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

not applicable

DNEL

Substance
Iron hydroxide oxide yellow, CAS: 51274-00-1
Industrial, inhalative, Long-term-local effects: 10 mg/m ³

8.2 Exposure controls**Additional advice on system design**

Ensure adequate ventilation on workstation.

Pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).

Measurements methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection

Safety glasses. (EN 166:2001)

Hand protection

Leather (EN 388).

The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection

Protective clothing..

Other

Avoid contact with eyes and skin.

Respiratory protection

Not required under normal conditions.

Thermal hazards

none

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions.

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

Form	granules
Colour	black
Odour	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	5,5 - 7,5
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°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]	1,15

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Bulk density [kg/m³]	1115
Solubility in water	insoluble < 0,1g/l
Partition coefficient [n-oktanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	>1000
Autoignitation temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information none

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SECTION 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 acids.
Reactions with strong oxidizing agents.
- 10.4 Conditions to avoid** see SECTION 7.2.
- 10.5 Incompatible materials** Strong oxidizing agent.
Acids.
- 10.6 Hazardous decomposition products** No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, inhalative (dust), > 5 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.

Substance
Iron hydroxide oxide yellow, CAS: 51274-00-1
LD50, oral, rat: > 2000 mg/kg (Lit.)
LC50, inhalative, rat: > 195.7 mg/m ³ (6h) (Lit.)

- Serious eye damage/irritation** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Skin corrosion/irritation** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Respiratory or skin sensitisation** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Specific target organ toxicity - single exposure** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Specific target organ toxicity - repeated exposure** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Mutagenicity** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Reproduction toxicity** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
- Carcinogenicity** Does not contain a relevant substance that meets the classification criteria.

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Aspirations hazard

Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

General remarks

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
none

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SECTION 12: Ecological information**12.1 Toxicity**

Substance
Iron hydroxide oxide yellow, CAS: 51274-00-1
EC50, (48h), Daphnia magna: > 100 mg/l (Lit.)
LC0, (96h), fish: > 100 000 mg/l (Lit.)

12.2 Persistence and degradability

Behaviour in environment compartments not determined.

Behaviour in sewage plant Iron hydroxide oxide to adsorb nutrient, specially phosphate

Biological degradability not applicable

12.3 Bioaccumulative potential not applicable

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment
not applicable

12.6 Other adverse effects None known.

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 For recycling, consult manufacturer.

Waste no. (recommended) 190206
190205*

Contaminated packaging Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102
150110*

SECTION 14: Transport information**14.1 UN-number**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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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)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification , ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	none
- VOC (2010/75/CE)	0 %

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out: FeOOH

SECTION 16: Transport information**16.1 Hazard statements (SECTION 2)****16.2 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
 AND = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labeling 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
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

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STP = Sewage Treatment Plant
 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

16.3 Other information**Customs Tariff**

28 21 10 000

Classification procedure

Modified positions

SECTION 7 been added: The normal safety precautions for handling chemicals must be observed.
 SECTION 7 been added: Do not eat, drink, smoke or take drugs at work.
 SECTION 8 been added: Measurements methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
 SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
 SECTION 10 been added: Acids

The information is based on the current state of our knowledge, but they do not constitute an assurance of product properties and do not establish a contractual relationship.