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

series 14 - HORADAM AQUARELL

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

1.1 Product identifier
Trade name
series 14 - HORADAM AQUARELL
Finest artists’ water-colours

REACH registration No.
UFI

1.2 Relevant identified uses of the substance or mixture and uses advised against
General use
Products for creation of art.

Uses advised against

1.3 Details of the supplier of the safety data sheet
H. Schmincke & Co. GmbH & Co. KG
Otto-Hahn-Strasse 2
D-40699 Erkrath
Tel +49 (0) 211 - 2509 - 0
Fax +49 (0) 211 - 2509 - 479
info@schmincke.de
www.schmincke.de

Schmincke-lab:
mo-th 8.00-16.30, fr 8.00-13.30
tel. +49 (0) 211-2509-474
labor@schmincke.de

1.4 Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency Information</th>
<th>Emergencycall Berlin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+49 30-30686700</td>
</tr>
<tr>
<td></td>
<td>(24/7 counseling in german and english)</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)
Aquatic Acute 1; H400 Very toxic to aquatic life.
Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling

Signal word
Warning

Hazard statements
H410 Very toxic to aquatic life with long lasting effects.
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Based on the low volume (small packaging size) and the tiny risk potential there is no labelling on the pans.

Safety precautions
P102  Keep out of reach of children.
P270  Do not eat, drink or smoke when using this product.
P273  Avoid release to the environment.
P391  Collect spillage.

Hazard components for labelling

Text for labelling (CLP)
Contains biocidal products. Contains BIT, CIT, MIT, OIT: May produce an allergic reaction.
Full text of biocides: see section 16.

2.3 Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterisation
pigment
gum arabic
Water

CAS-Number
EINECS / ELINCS / NLP
EU index number
Customs tariff number
REACH registration No.
RTECS-no.
Hazchem-Code
CI-Number
PW4

3.2 Mixtures

<table>
<thead>
<tr>
<th>Substance 1</th>
</tr>
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<tbody>
<tr>
<td>zinc oxide: 50 - 75 %</td>
</tr>
<tr>
<td>CAS: 1314-13-2</td>
</tr>
<tr>
<td>REACH: 01-2119463881-32-0043</td>
</tr>
<tr>
<td>Aquatic Acute 1; H400</td>
</tr>
</tbody>
</table>

Additional information

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
If you feel unwell, seek medical advice (show the label where possible).

In case of inhalation
No special measures are required.

In case of skin contact
Thoroughly wash skin with soap and water.
Seek medical attention if irritation persists.

After eye contact
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Seek medical attention if irritation persists.

After swallowing
Rinse mouth with water. Let water be drunken in little sips (dilution effect).
If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Extinguishing media which must not be used for safety reasons

none

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters

Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically. Wash spill area with plenty of water.

Additional information

6.4 Reference to other sections

Dispose of waste according to applicable legislation. refer to section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advises on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Precautions against fire and explosion

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers

Keep container tightly closed.

Hints on joint storage

Storage class

Further details

storage temperature: 5 - 30 °C

Protect from moisture contamination.

7.3 Specific end use(s)

No special measures necessary if stored and handled as prescribed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1314-13-2 zinc oxide
**SAFETY DATA SHEET**

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

series 14 - HORADAM AQUARELL

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### DNEL overview

- **1314-13-2 zinc oxide**
  - DNEL worker, Long-term - inhalation, system: 5,00000 mg/m³
  - DNEL worker, Long-term - inhalation, local: 0,50000 mg/m³
  - DNEL worker, Long-term - dermal, systemic: 83,00000 mg/kg bw/day
  - DNEL Consumer, Long-term - oral, systemic: 0,83000 mg/kg bw/day
  - DNEL Consumer, Long-term - inhalation, systemic: 2,50000 mg/m³
  - DNEL Consumer, Long-term - dermal, systemic: 83,00000 mg/kg bw/day

### PNEC overview

- **1314-13-2 zinc oxide**
  - PNEC soil: 35,60000 mg/kg dw
  - PNEC aquatic, freshwater: 20,60000 µg/L
  - PNEC aquatic, marine water: 6,10000 µg/L
  - PNEC soil, freshwater: 117,80000 mg/kg dw
  - PNEC soil, marine water: 56,50000 mg/kg dw
  - PNEC sewage treatment plant: 100,00000 µg/L

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### 8.2 Exposure controls

**Occupational exposure controls**

- **Respiratory protection**
  - With the formation of dust, use a dust mask.

- **Hand protection**
  - Protect skin by using skin protective cream.

- **Eye protection**
  - Goggles

- **Body protection**
  - Wear suitable protective clothing. Wash contaminated clothing prior to re-use.

**General protection and hygiene measures**

- After work, wash hands and face.

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### SECTION 9: Physical and chemical properties

**9.1 information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>min</th>
<th>max</th>
</tr>
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<tbody>
<tr>
<td>Initial boiling point and boiling range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point/flash point range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature</td>
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<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
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<td></td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refraction index</td>
<td>4</td>
<td>6,5</td>
</tr>
<tr>
<td>PH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
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</tbody>
</table>

Vapour pressure

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Density:  max. 1.25 kg/l 20 °C
Partition coefficient: n-octanol/water

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability
Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid
frost and heat

10.5 Incompatible materials
strong acids oxidizing agents Strong alkali

10.6 Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological tests
1314-13-2 zinc oxide

<table>
<thead>
<tr>
<th></th>
<th>oral</th>
<th>Rat</th>
<th>mg/kg</th>
<th>4h</th>
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<tbody>
<tr>
<td>LD50</td>
<td>&gt;500,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>&gt;5,70000</td>
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<td></td>
</tr>
</tbody>
</table>

Acute toxicity
No data available

In case of inhalation
No data available

After swallowing
No data available

In case of skin contact
No data available

After eye contact
No data available

Practical experience

General remarks

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicological effects
1314-13-2 zinc oxide

<table>
<thead>
<tr>
<th></th>
<th>Daphnia magna (Big water flea)</th>
<th>mg/L</th>
<th>(48h)</th>
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</thead>
<tbody>
<tr>
<td>EC50</td>
<td>0,67000</td>
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</table>

Aquatic toxicity

Water Hazard Class: WGK 2
SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006 (REACH)  
series 14 - HORADAM AQUARELL

12.2 Persistence and degradability
Further details
Product is partially biodegradable.

12.3 Bioaccumulative potential
Bioconcentration factor (BCF)
Partition coefficient: n-octanol/water

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste key number
080112 waste paint and varnish other than those mentioned in 08 01 11
Recommendation

Package
Waste key number
Recommendation
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Additional information

SECTION 14: Transport information

14.1 UN number
3082

14.2 UN proper shipping name
ADR, ADN Environmentally hazardous substance, liquid n.o.s.
IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
DANGER releasing substance zinc oxide

14.3 Transport hazard class(es)
ADR, ADN 9
IMDG 9
IATA 9

14.4 Packing group
III

14.5 Environmental hazards
Marine Pollutant - IMDG Yes
Marine Pollutant - ADN

14.6 Special precautions for user
### Land transport (ADR/RID)

| Code: ADR/RID | M6            |
| Kemmler-number | 90           |
| Hazard label ADR | 9            |
| Limited quantities | 5l         |
| Package: Instructions | P001, IBC03, LP01, R001 |
| Package: Special provisions | PP1 |
| Special provisions for packing together | MP19 |
| Portable tanks: Instructions | T4 |
| Portable tanks: Special provisions | TP1, TP29 |
| Tank coding | LGBV |
| Tunnel restriction | - |
| Remarks | E1 |
| Special provisions | 274, 335, 375, 601 |

### Sea transport (IMDG)

| EmS | F-A, S-F |
| Special provisions | 274, 335, 969 |
| Limited quantities | 5l |
| Package: Instructions | P001, LP01 |
| Package: Special provisions | PP1 |
| IBC: Instructions | IBC03 |
| IBC: Provisions | - |
| Tank instructions IMO | - |
| Tank instructions UN | T4 |
| Tank instructions Special provisions | TP1, TP29 |
| Stowage and segregation | category A |
| Properties and observations | |
| Remarks | E1 |

### Air transport (IATA-DGR)

| Hazard | - |
| Passenger | 964 (450l) |
| Passenger LQ | Y964 (30kg G) |
| Cargo | 964 (450l) |
| ERG | 9L |
| Remarks | E1 |
| Special Provisioning | A97, A158, A197 |

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### SECTION 15: Regulatory information

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

#### National regulations

##### Europe

| Contents of VOC [%] | 0 |
| Contents of VOC [g/L] | |

Further regulations, limitations and legal requirements

##### Germany

| Storage class | |
15.2 Chemical Safety Assessment

SECTION 16: Other information

Further information

Hazard statements (CLP)  
H400  Very toxic to aquatic life.  
H410  Very toxic to aquatic life with long lasting effects.

Further information  
This information is abased on our current state of knowledge and describes the security standards applicable to our product for the purpose provided. The information provided here does not constitute a legally binding warranty of specific characteristics or of suitability for a specific application use of the product is thus to be adapted to the user's special conditions and checked by preliminary tests. We are thus unable to guarantee product characteristics or accept an liability for damage arising in connection with the use of our products.

Literature  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Reason of change

Additional information  
BIT - 1,2-benzisothiazol-3(2H)-one  
CIT - 5-chloro-2-methyl-4-isothiazolin-3-one  
MIT - 2-methyl-2H-isothiazol-3-one  
OIT - 2-octyl-2H-isothiazol-3-one

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.