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

14 230  Naples yellow reddish
14 481  cerulean blue hue
14 486  cobalt blue hue

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 Chronic 2; H411  Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling

Signal word
.

Hazard statements
H411  Toxic to aquatic life with long lasting effects.

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
14 230 PW6, PW4, PR242, PY42
14 481 PW4, PB15:3
14 486 PW4, PB29

3.2 Mixtures

<table>
<thead>
<tr>
<th>Substance 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide: 5 - 25 %</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 / Aquatic Chronic 1; H410</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
SAFETY DATA SHEET
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1314-13-2 zinc oxide

| DEU | short-term occupational exposure | 20,000 mg/m³ | 4(I) |
| DEU | Long-term occupational exposure | 10,000 mg/m³ | 2(II) |

DNEL overview

<table>
<thead>
<tr>
<th>1314-13-2 zinc oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL worker Long-term - inhalation, system</td>
</tr>
<tr>
<td>DNEL worker Long-term - inhalation, local</td>
</tr>
<tr>
<td>DNEL worker Long-term - dermal, systemic</td>
</tr>
<tr>
<td>DNEL Consumer Long-term - oral, systemic eff</td>
</tr>
<tr>
<td>DNEL Consumer Long-term - inhalation, system</td>
</tr>
<tr>
<td>DNEL Consumer Long-term - dermal, systemic</td>
</tr>
</tbody>
</table>

PNEC overview

<table>
<thead>
<tr>
<th>1314-13-2 zinc oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC soil</td>
</tr>
<tr>
<td>PNEC aquatic, freshwater</td>
</tr>
<tr>
<td>PNEC aquatic, marine water</td>
</tr>
<tr>
<td>PNEC soil, freshwater</td>
</tr>
<tr>
<td>PNEC soil, marine water</td>
</tr>
<tr>
<td>PNEC sewage treatment plant</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Occupational exposure controls

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

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Form | solid / pasty |
| Colour | pigmented |
| Odour | almost odourless |

Initial boiling point and boiling range
Melting point/freezing point
Flash point/flash point range
Flammability
Ignition temperature
Auto-ignition temperature
Explosion limits
Refraction index
PH | 4 - 6,5 |
Viscosity |
Viscosity |
Vapour pressure Density Partition coefficient: n-octanol/water
max. 1,25 kg/l 20 °C

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

<table>
<thead>
<tr>
<th>Toxicological tests</th>
<th>Toxicant</th>
<th>species</th>
<th>oral LD50</th>
<th>Rat LD50</th>
<th>Inhalative LC50</th>
<th>mg/kg</th>
<th>(h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>oral</td>
<td>1050</td>
<td>Rat</td>
<td>&gt;</td>
<td>50000000</td>
<td>&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inhalative</td>
<td>1250</td>
<td>Rat</td>
<td>&gt;</td>
<td>57000</td>
<td>&gt;</td>
<td></td>
<td>(h)</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

<table>
<thead>
<tr>
<th>EfC50</th>
<th>species</th>
<th>mg/L</th>
<th>(h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna (Big water flea)</td>
<td>0,67000</td>
<td>(48h)</td>
<td></td>
</tr>
<tr>
<td>ErC50: Algae</td>
<td>0,21000</td>
<td>(72h)</td>
<td></td>
</tr>
</tbody>
</table>
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series 14 - HORADAM AQUARELL  

Aquatic toxicity  
Water Hazard Class 2  
WGK catalog number General information  

12.2 Persistence and degradability  
Further details  
Product is partially biodegradable.  
Oxygen demand  

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  
General information  

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
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Marine Pollutant - ADN

14.6 Special precautions for user

Land transport (ADR/RID)
Code: ADR/RID
Kemmler-number
Hazard label ADR
Limited quantities
Package: Instructions
Package: Special provisions
Special provisions for packing together
Portable tanks: Instructions
Portable tanks: Special provisions
Tank coding
Tunnel restriction
Remarks
Equ
Special provisions

Sea transport (IMDG)
EmS
Special provisions
Limited quantities
Package: Instructions
Package: Special provisions
IBC: Instructions
IBC: Provisions
Tank instructions IMO
Tank instructions UN
Tank instructions Special provisions
Stowage and segregation
Properties and observations
Remarks
Equ

Air transport (IATA-DGR)
Hazard
Passenger
Passenger LQ
Cargo
ERG
Remarks
Equ
Special Provisioning

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
SAFETY DATA SHEET
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Germany
Storage class
Water Hazard Class 2
WGK catalog number
Incident regulation
Information on working limitations
Further regulations, limitations and legal requirements

Denmark
Further regulations, limitations and legal requirements

Hungary
Further regulations, limitations and legal requirements

Great Britain
Further regulations, limitations and legal requirements

Switzerland
Contents of VOC [%]
Further regulations, limitations and legal requirements

USA
Further regulations, limitations and legal requirements
Federal Regulations
State Regulations

Canada
Further regulations, limitations and legal requirements

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.
H411 Toxic to aquatic life with long lasting effects.

Further information
This information is based 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.