

**SAFETY DATA SHEET**

86319-0000

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

**series 14 - HORADAM SQUARELL**

<b>Article No.</b>	<b>14101001</b>	<b>titanium opaque white</b>	<b>Issue date:</b>	<b>29.01.20</b>
<b>Version</b>	<b>6 . 1</b>	<b>( 29.01.20 )</b>	<b>Page</b>	<b>1 / 7</b>

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

**1.1 Product identifier**

**Trade name** series 14 - HORADAM SQUARELL  
Finest artists' water-colours

**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-Str. 2  
D - 40699 Erkrath  
Tel. +49 (0) 211-2509-0  
Fax. +49 (0) 211-2509-497  
info@schmincke.de  
www.schmincke.de

**Department responsible for information**

Schmincke-labor:  
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**

**Emergency  
Information  
Phone #**

**Emergencycall, Berlin  
(24h - counseling in german and english)  
+49 (0) 30-30686700**

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2 Label elements****Labelling****Signal word****Hazard statements**

no hazard labelling required

**Safety precautions****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

Item Numbers: 86319-1009, 86319-1010, 86319-1019, 86319-1029, 86319-1039, 86319-1320, 86319-2000, 86319-2010, 86319-2020, 86319-2030, 86319-2250, 86319-2400, 86319-2500, 86319-2520, 86319-2540, 86319-2550, 86319-2560, 86319-2570, 86319-3010, 86319-3020, 86319-3030, 86319-3040, 86319-3060, 86319-3070, 86319-3080, 86319-3090, 86319-3130, 86319-3250, 86319-3280, 86319-3340, 86319-3430, 86319-3500, 86319-3530, 86319-3620, 86319-3710, 86319-3720, 86319-3730, 86319-3740, 86319-3750, 86319-3790, 86319-4010, 86319-4020, 86319-4030, 86319-4040, 86319-4050, 86319-4060, 86319-4130, 86319-4140, 86319-4160, 86319-4190, 86319-4270, 86319-4280, 86319-4510, 86319-4520, 86319-4540, 86319-4650, 86319-4660, 86319-4810, 86319-4900, 86319-4910, 86319-4940, 86319-4960, 86319-4980, 86319-5000, 86319-5010, 86319-5020, 86319-5030, 86319-5040, 86319-5050, 86319-5110, 86319-5160, 86319-5180, 86319-5200, 86319-5210, 86319-5220, 86319-5230, 86319-5240, 86319-5250, 86319-5270, 86319-5290, 86319-5300, 86319-5380, 86319-5910, 86319-5920, 86319-5930, 86319-5940, 86319-6000, 86319-6060, 86319-6080, 86319-6140, 86319-6180, 86319-6420, 86319-6500, 86319-6510, 86319-6520, 86319-6530, 86319-6730, 86319-6910, 86319-7010, 86319-7060, 86319-7070, 86319-7080, 86319-7090, 86319-7230, 86319-7250, 86319-7260, 86319-7270, 86319-7290, 86319-7330, 86319-7370, 86319-7480, 86319-7550, 86319-7580, 86319-7650, 86319-7660, 86319-7670, 86319-7710, 86319-7800, 86319-7840, 86319-7850, 86319-7910, 86319-7920, 86319-8000, 86319-8010, 86319-8020, 86319-8030, 86319-8040, 86319-8050, 86319-8060, 86319-8070, 86319-8080, 86319-8120, 86319-8160, 86319-8310, 86319-8440, 86319-8910, 86319-8920, 86319-9010, 86319-9330, 86319-1030, 86319-2040, 86319-2360, 86319-2600, 86319-2610, 86319-3100, 86319-3110, 86319-3120, 86319-3320, 86319-3330, 86319-3360, 86319-3370, 86319-3380, 86319-3400, 86319-3780, 86319-4120, 86319-4180, 86319-4290, 86319-4330, 86319-4350, 86319-4360, 86319-4370, 86319-4410, 86319-4440, 86319-4450, 86319-4880, 86319-4890, 86319-4920, 86319-4950, 86319-5070, 86319-5360, 86319-5450, 86319-5550, 86319-5560, 86319-6070, 86319-6360, 86319-6550, 86319-6670, 86319-6680, 86319-7150, 86319-7190, 86319-7200, 86319-7740, 86319-8320, 86319-8350, 86319-8360, 86319-8450, 86319-8600, 86319-8690, 86319-8710, 86319-8790, 86319-8890

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<b>Version</b>	<b>6 . 1</b>	<b>( 29.01.20 )</b>	<b>Page</b>	<b>2 / 7</b>

**3.1 Substances****Chemical characterisation**

pigment  
gum arabic  
Water  
CAS-Number  
EINECS / ELINCS / NLP  
EU index number  
REACH registration No.  
Hazchem-Code  
CI-Number

**3.2 Mixtures****Additional information**

Further information: see appendix this safety data sheet.  
The colours 14102, 230, 481, 486 contain zinc oxide. (see separate safety data sheet)  
The colour 14670 contains quinacridone quinone. (See separate safety data sheet)

**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**

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**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****Advices 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****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

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**Odour** almost odourless

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

**Danger of explosion**

**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****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**

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**SECTION 12: Ecological information****12.1 Toxicity**

**Aquatic toxicity**  
**Water Hazard Class** 1  
**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**

**Contaminated packaging**

**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****14.2 UN proper shipping name**

**ADR, ADN** No dangerous good in sense of these transport regulations.  
**IMDG, IATA**

**14.3 Transport hazard class(es)**

**ADR, ADN**  
**IMDG**  
**IATA**

**14.4 Packing group****14.5 Environmental hazards****Marine Pollutant - IMDG**

Item Numbers: 86319-1009, 86319-1010, 86319-1019, 86319-1029, 86319-1039, 86319-1320, 86319-2000, 86319-2010, 86319-2020, 86319-2030, 86319-2250, 86319-2400, 86319-2500, 86319-2520, 86319-2540, 86319-2550, 86319-2560, 86319-2570, 86319-3010, 86319-3020, 86319-3030, 86319-3040, 86319-3060, 86319-3070, 86319-3080, 86319-3090, 86319-3130, 86319-3250, 86319-3280, 86319-3340, 86319-3430, 86319-3500, 86319-3530, 86319-3620, 86319-3710, 86319-3720, 86319-3730, 86319-3740, 86319-3750, 86319-3790, 86319-4010, 86319-4020, 86319-4030, 86319-4040, 86319-4050, 86319-4060, 86319-4130, 86319-4140, 86319-4160, 86319-4190, 86319-4270, 86319-4280, 86319-4510, 86319-4520, 86319-4540, 86319-4650, 86319-4660, 86319-4810, 86319-4900, 86319-4910, 86319-4940, 86319-4960, 86319-4980, 86319-5000, 86319-5010, 86319-5020, 86319-5030, 86319-5040, 86319-5050, 86319-5110, 86319-5160, 86319-5180, 86319-5200, 86319-5210, 86319-5220, 86319-5230, 86319-5240, 86319-5250, 86319-5270, 86319-5290, 86319-5300, 86319-5380, 86319-5910, 86319-5920, 86319-5930, 86319-5940, 86319-6000, 86319-6060, 86319-6080, 86319-6140, 86319-6180, 86319-6420, 86319-6500, 86319-6510, 86319-6520, 86319-6530, 86319-6730, 86319-6910, 86319-7010, 86319-7060, 86319-7070, 86319-7080, 86319-7090, 86319-7230, 86319-7250, 86319-7260, 86319-7270, 86319-7290, 86319-7330, 86319-7370, 86319-7480, 86319-7550, 86319-7580, 86319-7650, 86319-7660, 86319-7670, 86319-7710, 86319-7800, 86319-7840, 86319-7850, 86319-7910, 86319-7920, 86319-8000, 86319-8010, 86319-8020, 86319-8030, 86319-8040, 86319-8050, 86319-8060, 86319-8070, 86319-8080, 86319-8120, 86319-8160, 86319-8310, 86319-8440, 86319-8910, 86319-8920, 86319-9010, 86319-9330, 86319-1030, 86319-2040, 86319-2360, 86319-2600, 86319-2610, 86319-3100, 86319-3110, 86319-3120, 86319-3320, 86319-3330, 86319-3360, 86319-3370, 86319-3380, 86319-3400, 86319-3780, 86319-4120, 86319-4180, 86319-4290, 86319-4330, 86319-4350, 86319-4360, 86319-4370, 86319-4410, 86319-4440, 86319-4450, 86319-4880, 86319-4890, 86319-4920, 86319-4950, 86319-5070, 86319-5360, 86319-5450, 86319-5550, 86319-5560, 86319-6070, 86319-6360, 86319-6550, 86319-6670, 86319-6680, 86319-7150, 86319-7190, 86319-7200, 86319-7740, 86319-8320, 86319-8350, 86319-8360, 86319-8450, 86319-8600, 86319-8690, 86319-8710, 86319-8790, 86319-8890

**SAFETY DATA SHEET**

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

**series 14 - HORADAM AQUARELL**

<b>Article No.</b>	<b>14101001</b>	<b>titanium opaque white</b>	<b>Issue date:</b>	<b>29.01.20</b>
<b>Version</b>	<b>6 . 1</b>	<b>( 29.01.20 )</b>	<b>Page</b>	<b>6 / 7</b>

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

Code: ADR/RID  
 Kemmler-number  
 Hazard label ADR  
 Limited quantities  
 Contaminated packaging: Instructions  
 Contaminated packaging: Special provisions  
 Special provisions for packing together  
 Portable tanks: Instructions  
 Portable tanks: Special provisions  
 Tank coding  
 Tunnel restriction  
 Remarks  
 EQ  
 Special provisions

**Sea transport (IMDG)**

EmS  
 Special provisions  
 Limited quantities  
 Contaminated packaging: Instructions  
 Contaminated packaging: Special provisions  
 IBC: Instructions  
 IBC: Provisions  
 Tank instructions IMO  
 Tank instructions UN  
 Tank instructions Special provisions  
 Stowage and segregation  
 Properties and observations  
 Remarks  
 EQ

**Air transport (IATA-DGR)**

Hazard  
 Passenger  
 Passenger LQ  
 Cargo  
 ERG  
 Remarks  
 EQ  
 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

**Germany**

Item Numbers: 86319-1009, 86319-1010, 86319-1019, 86319-1029, 86319-1039, 86319-1320, 86319-2000, 86319-2010, 86319-2020, 86319-2030, 86319-2250, 86319-2400, 86319-2500, 86319-2520, 86319-2540, 86319-2550, 86319-2560, 86319-2570, 86319-3010, 86319-3020, 86319-3030, 86319-3040, 86319-3060, 86319-3070, 86319-3080, 86319-3090, 86319-3130, 86319-3250, 86319-3280, 86319-3340, 86319-3430, 86319-3500, 86319-3530, 86319-3620, 86319-3710, 86319-3720, 86319-3730, 86319-3740, 86319-3750, 86319-3790, 86319-4010, 86319-4020, 86319-4030, 86319-4040, 86319-4050, 86319-4060, 86319-4130, 86319-4140, 86319-4160, 86319-4190, 86319-4270, 86319-4280, 86319-4510, 86319-4520, 86319-4540, 86319-4650, 86319-4660, 86319-4810, 86319-4900, 86319-4910, 86319-4940, 86319-4960, 86319-4980, 86319-5000, 86319-5010, 86319-5020, 86319-5030, 86319-5040, 86319-5050, 86319-5110, 86319-5160, 86319-5180, 86319-5200, 86319-5210, 86319-5220, 86319-5230, 86319-5240, 86319-5250, 86319-5270, 86319-5290, 86319-5300, 86319-5380, 86319-5910, 86319-5920, 86319-5930, 86319-5940, 86319-6000, 86319-6060, 86319-6080, 86319-6140, 86319-6180, 86319-6420, 86319-6500, 86319-6510, 86319-6520, 86319-6530, 86319-6730, 86319-6910, 86319-7010, 86319-7060, 86319-7070, 86319-7080, 86319-7090, 86319-7230, 86319-7250, 86319-7260, 86319-7270, 86319-7290, 86319-7330, 86319-7370, 86319-7480, 86319-7550, 86319-7580, 86319-7650, 86319-7660, 86319-7670, 86319-7710, 86319-7800, 86319-7840, 86319-7850, 86319-7910, 86319-7920, 86319-8000, 86319-8010, 86319-8020, 86319-8030, 86319-8040, 86319-8050, 86319-8060, 86319-8070, 86319-8080, 86319-8120, 86319-8160, 86319-8310, 86319-8440, 86319-8910, 86319-8920, 86319-9010, 86319-9330, 86319-1030, 86319-2040, 86319-2360, 86319-2600, 86319-2610, 86319-3100, 86319-3110, 86319-3120, 86319-3320, 86319-3330, 86319-3360, 86319-3370, 86319-3380, 86319-3400, 86319-3780, 86319-4120, 86319-4180, 86319-4290, 86319-4330, 86319-4350, 86319-4360, 86319-4370, 86319-4410, 86319-4440, 86319-4450, 86319-4880, 86319-4890, 86319-4920, 86319-4950, 86319-5070, 86319-5360, 86319-5450, 86319-5550, 86319-5560, 86319-6070, 86319-6360, 86319-6550, 86319-6670, 86319-6680, 86319-7150, 86319-7190, 86319-7200, 86319-7740, 86319-8320, 86319-8350, 86319-8360, 86319-8450, 86319-8600, 86319-8690, 86319-8710, 86319-8790, 86319-8890

**SAFETY DATA SHEET**

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

**series 14 - HORADAM SQUARELL**

<b>Article No.</b>	<b>14101001</b>	<b>titanium opaque white</b>	<b>Issue date:</b>	<b>29.01.20</b>
<b>Version</b>	<b>6 . 1</b>	<b>( 29.01.20 )</b>	<b>Page</b>	<b>7 / 7</b>

**Storage class**  
**Water Hazard Class** 1  
**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**

**Japan**

**Further regulations, limitations and legal requirements**

**Canada**

**Further regulations, limitations and legal requirements**

**15.2 Chemical Safety Assessment****SECTION 16: Other information****Further information**

**Hazard statements (CLP)**  
**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.

Item Numbers: 86319-1009, 86319-1010, 86319-1019, 86319-1029, 86319-1039, 86319-1320, 86319-2000, 86319-2010, 86319-2020, 86319-2030, 86319-2250, 86319-2400, 86319-2500, 86319-2520, 86319-2540, 86319-2550, 86319-2560, 86319-2570, 86319-3010, 86319-3020, 86319-3030, 86319-3040, 86319-3060, 86319-3070, 86319-3080, 86319-3090, 86319-3130, 86319-3250, 86319-3280, 86319-3340, 86319-3430, 86319-3500, 86319-3530, 86319-3620, 86319-3710, 86319-3720, 86319-3730, 86319-3740, 86319-3750, 86319-3790, 86319-4010, 86319-4020, 86319-4030, 86319-4040, 86319-4050, 86319-4060, 86319-4130, 86319-4140, 86319-4160, 86319-4190, 86319-4270, 86319-4280, 86319-4510, 86319-4520, 86319-4540, 86319-4650, 86319-4660, 86319-4810, 86319-4900, 86319-4910, 86319-4940, 86319-4960, 86319-4980, 86319-5000, 86319-5010, 86319-5020, 86319-5030, 86319-5040, 86319-5050, 86319-5110, 86319-5160, 86319-5180, 86319-5200, 86319-5210, 86319-5220, 86319-5230, 86319-5240, 86319-5250, 86319-5270, 86319-5290, 86319-5300, 86319-5380, 86319-5910, 86319-5920, 86319-5930, 86319-5940, 86319-6000, 86319-6060, 86319-6080, 86319-6140, 86319-6180, 86319-6420, 86319-6500, 86319-6510, 86319-6520, 86319-6530, 86319-6730, 86319-6910, 86319-7010, 86319-7060, 86319-7070, 86319-7080, 86319-7090, 86319-7230, 86319-7250, 86319-7260, 86319-7270, 86319-7290, 86319-7330, 86319-7370, 86319-7480, 86319-7550, 86319-7580, 86319-7650, 86319-7660, 86319-7670, 86319-7710, 86319-7800, 86319-7840, 86319-7850, 86319-7910, 86319-7920, 86319-8000, 86319-8010, 86319-8020, 86319-8030, 86319-8040, 86319-8050, 86319-8060, 86319-8070, 86319-8080, 86319-8120, 86319-8160, 86319-8310, 86319-8440, 86319-8910, 86319-8920, 86319-9010, 86319-9330, 86319-1030, 86319-2040, 86319-2360, 86319-2600, 86319-2610, 86319-3100, 86319-3110, 86319-3120, 86319-3320, 86319-3330, 86319-3360, 86319-3370, 86319-3380, 86319-3400, 86319-3780, 86319-4120, 86319-4180, 86319-4290, 86319-4330, 86319-4350, 86319-4360, 86319-4370, 86319-4410, 86319-4440, 86319-4450, 86319-4880, 86319-4890, 86319-4920, 86319-4950, 86319-5070, 86319-5360, 86319-5450, 86319-5550, 86319-5560, 86319-6070, 86319-6360, 86319-6550, 86319-6670, 86319-6680, 86319-7150, 86319-7190, 86319-7200, 86319-7740, 86319-8320, 86319-8350, 86319-8360, 86319-8450, 86319-8600, 86319-8690, 86319-8710, 86319-8790, 86319-8890

**Appendix for material safety data sheet no.: 14 000 000**  
**HORADAM® AQUARELL**

art.nr.	art.name	C.I.		CAS-nr.
14101	titanium opaque white	PW6	Titanium dioxide	13463-67-7
14205	rutile yellow	PY53	Rutile (Ti, Ni, Sb)	8007-18-9
14206	titanium yellow	PY53	Rutile (Ti, Ni, Sb)	8007-18-9
14207	vanadium yellow	PY184	Bismuth vanadate	14059-33-7
14208	aureolin hue	PY151	Benzimidazolone	61036-28-0
14209	transparent yellow	PY150	Azo-nickel-complex	68511-62-6
14211	chromium yellow hue lemon	PY175	Benzimidazolone	35636-63-6
14212	chromium yellow hue light	PY153; PY155	Nickel-complex; Disazo	68859-51-8; 68516-73-4
14213	chromium yellow hue deep	PY65	Monazo	628-34-3
14214	chromium orange hue	PO62	Benzimidazolone	75601-68-2
14215	lemon yellow	PY3	Monazo	6486-23-3
14216	pure yellow	PY154	Benzimidazolone	68134-22-5
14217	quinacridone gold hue	PY150; PR101	Azo-nickel-complex; Iron oxide	68511-62-6; 1309-37-1
14218	transparent orange	PO71	Diketo-pyrrole-pyrrol	71832-85-4
14219	Turner s yellow	PY216	Rutile (Zn, Sn)	85536-73-8
14220	Indian yellow	PY110; PY154	Isoindolinone; Benzimidazolone	5590-18-1; 68134-22-5
14221	jaune brilliant dark	PW6; PY53; PB24	Titanium dioxide; Rutile (Ti, Ni, Sb); Rutile (Ti, Cr, Sb)	13463-67-7; 8007-18-9; 68186-90-3
14222	yellow orange	PY110	Isoindolinone	5590-18-1
14223	cadmium yellow lemon	PY35	Cadmium-zinc-sulphide	8048-07-5; 7727-43-7
14224	cadmium yellow light	PY35	Cadmium-zinc-sulphide	8048-07-5; 7727-43-7
14225	cadmium yellow middle	PY35	Cadmium-zinc-sulphide	8048-07-5; 7727-43-7
14226	cadmium yellow deep	PY35; PO20	Cadmium-zinc-sulphide; Cadmium sulfo-selenide	8048-07-5; 7727-43-7; 12656-57-4
14227	cadmium orange light	PO20	Cadmium sulfo-selenide	12656-57-4
14228	cadmium orange deep	PO20	Cadmium sulfo-selenide	12656-57-4
14229	Naples yellow	PW6; PY53; PB24	Titanium dioxide; Rutile (Ti, Ni, Sb); Rutile (Ti, Cr, Sb)	13463-67-7; 8007-18-9; 68186-90-3
14341	geranium red	PR242	Disazocondensation	118440-67-8
14342	vermilion light	PR188	Monazo	61847-48-1
14343	quinacridone red light	PR207	Quinacridone	-
14344	perylene dark red	PR178	Perylen	3049-71-6
14346	ruby red deep	PR264	Diketo-pyrrole-pyrrol	-
14347	cadmium red middle	PR108	Cadmium sulfo-selenide	58339-34-7; 7727-43-7
14348	cadmium red orange	PO20	Cadmium sulfo-selenide	12656-57-4
14349	cadmium red light	PR108	Cadmium sulfo-selenide	58339-34-7; 7727-43-7
14350	cadmium red deep	PR108	Cadmium sulfo-selenide	58339-34-7; 7727-43-7
14351	ruby red	PV19	Quinacridone	1047-16-1
14352	magenta	PV42	Quinacridone	-
14353	permanent carmine	PV19	Quinacridone	1047-16-1
14354	madder red dark	PV19; PR179	Quinacridone; Perylen	1047-16-1; 5521-31-3
14355	transparent red deep	PR144	Disazocondensation	5280-78-4

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**Appendix for material safety data sheet no.: 14 000 000**  
**HORADAM® AQUARELL**

art.nr.	art.name	C.I.		CAS-nr.
14355	rose madder	PR83:1; PR48:4	Antraquinone, Al, BONS, Mn	72-78-0; 5280-66-0
14357	alizarin crimson	PR83:1	Antraquinone, Al	72-78-0
14358	madder lake deep	PR83:1; PR177	Antraquinone, Al, Anthranthron	72-78-0; 4051-63-2
14359	Saturn red	PO64	Benzimidazole	75601-68-2
14360	permanent red orange	PO62; PR242	Benzimidazole; Disazocondensation	75601-68-2; 118440-67-8
14361	permanent red	PR242; PO62	Disazocondensation; Benzimidazole	118440-67-8; 75601-68-2
14362	Bordeaux	PR187	Naphthol AS	59487-23-9
14363	scarlet red	PR254	Diketo-pyrrolo-pyrrol	122990-98-1
14365	vermilion	PR255	Diketo-pyrrolo-pyrrol	120500-90-5
14366	perylene maroon	PR179	Perylen	5521-31-3
14367	purple magenta	PR122	Quinacridone	980-26-7
14368	quinacridone violet	PV19	Quinacridone	1047-16-1
14369	quinacridone magenta	PR202	Quinacridone	1047-16-1
14370	poiters pink	PR233	Tin chromium Silicate	68187-12-2
14371	perylene violet	PV29	Antraquinone	81-33-4
14472	quinacridone purple	PV55	Quinacridone	-
14473	cobalt violet hue	PV62	Strontium Phosphate	101356-96-1
14474	manganese violet	PV16	Manganese-ammonium pyrophosphate	10101-66-3
14475	heli turquoise	PB16	Phthalocyanine	574-93-6
14476	Schmincke violet	PV23	Dioxazine	6358-30-1
14477	phthalo sapphire blue	PB15:6	Phthalocyanine (Cu)	147-14-8
14479	heli cerulean	PB15:3	Phthalocyanine (Cu)	147-14-8
14480	mountain blue	PW5; PB29; PG7	Barium sulfate; Sodium aluminum silicate; Phthalocyanine (Cu, Cl)	1345-05-7; 57455-37-5; 1328-53-6
14482	Delft blue	PB60	Indanthrone	81-77-6
14483	cobalt azure	PB35	Spinel (Co, Sn)	68187-05-3
14484	phthalo blue	PB15:1	Phthalocyanine (Cu)	147-14-8
14485	indigo	PB15:1; PB66	Phthalocyanine (Cu); Indigo, synthetic	147-14-8; 482-89-3
14487	cobalt blue light	PB28	Spinel (Co, Al)	1345-16-0
14488	cobalt blue deep	PB74	Phenacole (Co, Zn, Si)	68412-74-8
14491	Paris blue	PB15; PB15:1; PB27	Phthalocyanine (Cu); Phthalocyanine (Cu); Iron-cyan-complex	147-14-8; 147-14-8; 14038-43-8; 25869-98-1
14492	Prussian blue	PB27	Iron-cyan-complex	14038-43-8; 25869-98-1
14493	French ultramarine	PB29	Sodium aluminum silicate	57455-37-5
14494	ultramarine finest	PB29	Sodium aluminum silicate	57455-37-5
14495	ultramarine violet	PV15; PB29	Sodium aluminum silicate; Sodium aluminum silicate	12769-06-9; 57455-37-5
14496	ultramarine blue	PB15; PB29	Phthalocyanine (Cu); Sodium aluminum silicate	147-14-8; 57455-37-5
14498	dark blue	PB60	Indanthrone	81-77-6
14499	cobalt cerulean	PB36	Spinel (Co, Al, Cr)	68187-11-1
14509	cobalt turquoise	PG50	Spinel (Co, Ni, Zn, Ti)	68186-85-6
14510	cobalt green turquoise	PB36	Spinel (Co, Al, Cr)	68187-11-1

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**Appendix for material safety data sheet no.: 14 000 000**  
**HORADAM® SQUARELL**

art.nr.	art.name	C.I.		CAS-nr.
14511	chromium oxide green brilliant	PG18; PG7	Hydrated chromium oxide; Phthalocyanine (Cu, Cl)	12001-99-9; 1328-53-6
14512	chromium oxide green	PG17	Hematite (Cr)	1308-38-9
14513	viridian	PG18	Hydrated chromium oxide	12001-99-9
14514	helio green	PG36	Phthalocyanine complex (Cu, Cl, Br)	14302-13-7
14515	olive green	PB15; PG8	Phthalocyanine (Cu); Phthalocyanine (Cu, Cl)	147-14-8; 1328-53-6
14516	green earth	PB7; PG7	Earth pigment; Phthalocyanine (Cu, Cl)	-; 1328-53-6
14519	phthalo green	PG7	Phthalocyanine (Cu, Cl)	1328-53-6
14521	Hooker's green	PB15;3; PG7; PY42	Phthalocyanine (Cu); Phthalocyanine (Cu, Cl); Hydrated iron oxide	147-14-8; 1328-53-6; 20344-49-4
14524	may green	PY151; PG7	Benzimidazolone; Phthalocyanine (Cu, Cl)	61036-28-0; 1328-53-6
14525	olive green yellowish	PO62; PG36	Benzimidazolone; Phthalocyanine complex (Cu, Cl, Br)	75601-68-2; 14302-13-7
14526	permanent green	PY155; PG7	Disazo; Phthalocyanine (Cu, Cl)	68516-73-4; 1328-53-6
14528	Prussian green	PG7; PB60	Phthalocyanine (Cu, Cl); Indanthrone	1328-53-6; 81-77-6
14530	sap green	PY153; PG7	Nickel-complex; Phthalocyanine (Cu, Cl)	68859-51-8; 1328-53-6
14533	cobalt green dark	PG26	Spinel (Co,Cr)	68187-49-5
14534	permanent green olive	PO62; PG7	Benzimidazolone; Phthalocyanine (Cu, Cl)	75601-68-2; 1328-53-6
14535	cobalt green pure	PG19	Spinel (Co, Zn)	8011-87-8
14537	transparent green gold	PY154; PB7	Benzimidazolone; Earth pigment	68134-22-5; -
14645	Indian red	PR101; PR206	Iron oxide; Quinacridone	1309-37-1; 1047-16-1; 1503-48-6
14648	transparent brown	PB41	Disazococondensation	68516-75-6
14649	English Venetian red	PR101	Iron oxide	1309-37-1
14650	spinel brown	PY119	Spinel (Zn, Fe)	68186-90-3
14651	maroon brown	PB7	Earth pigment	-
14653	transparent Sienna	PR101	Iron oxide	1309-37-1
14654	gold brown	PY65; PB41	Monazo; Disazococondensation	6528-34-3; 68516-75-6
14655	yellow ochre	PY42	Hydrated iron oxide	20344-49-4
14656	yellow raw ochre	PY42/PY43	Iron oxide mix	72669-22-8
14657	transparent ochre	PY42	Hydrated iron oxide	20344-49-4
14658	Mars brown	PB6	Iron oxide mix	72669-22-8
14659	titanium gold ochre	PB24	Rutile (Ti, Cr, Sb)	68186-90-3
14660	raw Sienna	PB7/PY43	Earth pigment	-
14661	burnt Sienna	PR101; PBK9	Iron oxide; Am. carbonized bones of animals	1309-37-1; 8021-99-6
14662	sepia brown reddish	PR242; PB7; PBK9	Disazococondensation; Earth pigment; Am. carbonized bones of animals	118446-67-8; -; 8021-99-6
14663	sepia brown	PB15;1; PB7; PBK9	Phthalocyanine (Cu); Earth pigment; Am. carbonized bones of animals	147-14-8; -; 8021-99-6
14665	green umber	PB7	Earth pigment	-
14667	raw umber	PB7/PY42	Earth pigment	-
14668	burnt umber	PB7	Earth pigment	-
14669	Vandyke brown	PY153; PB7; PBK7	Nickel-complex; Earth pigment; Lamp black	68859-51-8; -; 1333-86-4
14671	transparent umber	PR101	Iron oxide	1309-37-1
14672	mahogany brown	PB33	Spinel (Zn,Fe,Cr)	68186-88-9

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**Appendix for material safety data sheet no.: 14 000 000**  
**HORADAM® AQUARELL**

art.nr.	art.name	C.I.		CAS-nr.
14780	ivory black	PBK9	Am. carbonized bones of animals	8021-99-6
14781	lamp black	PBK6	Lamp black	1333-86-4
14782	neutral tint	PR122; PB60; PBK7	Quinacridone; Indanthrone; Lamp black	980-26-7; 81-77-6; 1333-86-4
14783	Schmincke Payne's grey	PR101; PB29; PBK7	Iron oxide; Sodium aluminum silicate; Lamp black	1309-37-1; 57455-37-5; 1333-86-4
14784	perylene green	PBK31	Perylene	67075-37-0
14785	neutral grey	PR255; PB60; PO62	Diketopyrrolo-pyrrol; Indanthrone; Benzimidazolone	120500-90-5; 81-77-6; 75601-68-2
14786	anthracite	PBK7	Lamp black	1333-86-4
14787	Payne's grey bluish	PBK6; PB15; PB15.2	Lamp black; Phthalocyanine (Cu); Phthalocyanine (Cu)	1333-86-4; 147-14-8; 147-14-8
14788	graphite grey	PBK10	Crystallized carbon	7782-42-5
14789	hematite black	PG17	Hematite (Cr)	1308-38-9
14791	Mars black	PBK11	Iron oxide black	1317-61-9
14893	gold	Effektpigment	Effektpigment	-
14894	silver	Effektpigment	Effektpigment	-
14910	brilliant blue violet	PB29; PV23; Effektpigment	Sodium aluminum silicate; Dioxazine; Effektpigment	57455-37-5; 6358-30-1; -
14920	brilliant opera rose	PR122; Effektpigment	Quinacridone; Effektpigment	980-26-7; -
14930	brilliant purple	PR122; Effektpigment	Quinacridone; Effektpigment	980-26-7; -
14940	brilliant red violet	PV55; Effektpigment	Quinacridone; Effektpigment	-; -

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