

# SAFETY DATA SHEET

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

## series 41 - AKADEMIE ÖL color

Article No.  
Version 2 ( 03.03.16 )

Issue date: 03.03.16  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name series 41 - AKADEMIE ÖL color  
fine artists' oil-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

##### Dept. responsible for information

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

<b>Emergency Information</b> <b>Phone #</b>	<b>Emergencycall Berlin</b> <b>(24h - counseling in german and english)</b> <b>+49 (0) 30-30686790</b>
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

no hazard labelling required

#### 2.2 Label elements

##### Labelling (CLP)

##### Signal word

##### Hazard statements

no hazard labelling required

##### Safety precautions

#### 2.3 Other hazards

### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

##### Chemical characterization

oil  
pigment  
siccative  
CAS-Number

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

### **3.2 Mixtures**

<b>Substance 1</b>
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zinc oxide: < 50 %  
CAS-Number: 1314-13-2  
REACH registration No.: 01-2119463881-32-0043  
Aquatic Acute 1; H400 / Aquatic Chronic 1; H410

#### **Additional information**

The colours 41 102, 106, 404 contain zinc oxide. (see section 12)  
Further information: annex

## SECTION 4: First aid measures

### **4.1 Description of first aid measures**

#### **General information**

No special measures are required.

#### **In case of inhalation**

#### **In case of skin contact**

#### **After eye contact**

#### **After swallowing**

### **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**

### **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.

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### 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 - 40 °C

### 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

DEU	not required	2,000	mg/m <sup>3</sup>	2(I) - inhalativ
DEU	WEL	0,100	mg/m <sup>3</sup>	4(I) - alveolengängig

### 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

Avoid contact with eyes.

##### Body protection

Wash contaminated clothing prior to re-use.

##### General protection and hygiene measures

No special handling advices are necessary. Wash hands thoroughly after handling.

## SECTION 9: Physical and chemical properties

### 9.1 information on basic physical and chemical properties

Physical state pasty  
Colour pigmented  
Odour weak

min max

Initial boiling point and

boiling range

Melting point/freezing point

Flash point/flash point range

Flammability

Ignition temperature

Auto-ignition temperature

Explosion limits

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Refraction index

Partition coefficient: n-octanol/water  
Explosive properties

Vapour pressure

Density 1,1 - 20 °C  
2,5 g/ml

PH value

Viscosity dynamic of  
Viscosity dynamic up to

Viscosity kinematic of  
Viscosity kinematic up to

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

frost and heat

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### 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

### Toxicological tests

1314-13-2 zinc oxide

oral	LD50	Rat		10000,000	mg/kg	-
inhalative	LC50	Rat		5,700	mg/L	(4h)

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

EC50 Desmodemus subspicatus. : >= 114,2 mg/l ... for all zinc oxide containing colours (Hydrotox; 05/2224)

Water Hazard Class

1

WGK catalog number

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### 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

#### Ecotoxicological effects

1314-13-2 zinc oxide

EC50	Algae		0,170	mg/L	(72h)
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## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

##### Waste key number

080112

080112 waste paint and varnish other than those mentioned in 080111

##### Recommendation

##### Contaminated packaging

##### Waste key number

##### Recommendation

##### 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

Marine Pollutant - ADN

#### 14.6 Special precautions for user

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### Land transport

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

### Inland waterway craft

Hazard label  
Limited quantities  
Transport permitted  
Equipment necessary  
Ventilation  
Remarks  
EQ  
Special provisions

### Sea transport

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

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

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### National regulations

#### Europe

Contents of VOC [%]  
Contents of VOC  
[g/L]  
Further regulations, limitations and legal requirements

#### Germany

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) H400 Very toxic to aquatic life.  
H410 Very 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 a 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

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R.20 (Table of terms and abbreviations).

**Reason of change**

**Additional information**

## Appendix for material safety data sheet no.: 41 000 000

### AKADEMIE® Öl color fine artists' oil colours

<b>41100</b> zinc white	PW4	Zinc oxide	1314-13-2
<b>41102</b> titanium white	PW4; PW6	Zinc oxide; Titanium dioxide	1314-13-2; 13463-67-7
<b>41104</b> mixing white	PW5	Barium sulfate	1345-05-7
<b>41106</b> underpainting white	PW5; PW6	Barium sulfate; Titanium dioxide	1345-05-7; 13463-67-7
<b>41200</b> ivory	PW6; PY53	Titanium dioxide; Rutile (Ti, Ni, Sb)	13463-67-7; 8007-18-9
<b>41201</b> sand	PBr24; PW6; PY42	Rutile (Ti, Cr, Sb); Titanium dioxide; Hydrated iron oxide	68186-90-3; 13463-67-7; 20344-49-4
<b>41202</b> flesh tint	PW6; PY42; PY53	Titanium dioxide; Hydrated iron oxide; Rutile (Ti, Ni, Sb)	13463-67-7; 20344-49-4; 8007-18-9
<b>41204</b> Naples yellow light	PY53; PY42	Rutile (Ti, Ni, Sb); Hydrated iron oxide	8007-18-9; 20344-49-4
<b>41207</b> Naples yellow deep	PBr24; PY42	Rutile (Ti, Cr, Sb); Hydrated iron oxide	68186-90-3; 20344-49-4
<b>41216</b> lemon yellow	PY3	Monoazo	6486-23-3
<b>41218</b> primary yellow	PY3; PY74; PW5; PW6	Monoazo; Monoazo; Barium sulfate; Titanium dioxide	6486-23-3; 6358-31-2; 1345-05-7; 13463-67-7
<b>41220</b> cadmium yellow hue	PY74; PW5; PW6	Monoazo; Barium sulfate; Titanium dioxide	6358-31-2; 1345-05-7; 13463-67-7
<b>41222</b> chrome yellow hue	PY74; PW5; PR101	Monoazo; Barium sulfate; Iron oxide	6358-31-2; 1345-05-7; 1309-37-1
<b>41224</b> Indian yellow	PY153	Nickel-complex	68859-51-8
<b>41226</b> cadmium orange hue	PO67; PY74; PW5	Pyrazolochinazolone; Monoazo; Barium sulfate	74336-59-7; 6358-31-2; 1345-05-7
<b>41302</b> scarlet	PR242	Disazocondensation	118440-67-8
<b>41304</b> vermilion red	PR112	Naphthol AS	6535-46-2
<b>41306</b> cadmium red hue	PR254; PW5	Diketo-pyrrolo-pyrrol; Barium sulfate	122390-98-1; 1345-05-7
<b>41308</b> carmine	PR170	Naphthol AS	2786-76-7
<b>41310</b> ruby	PR254; PR101	Diketo-pyrrolo-pyrrol; Iron oxide	122390-98-1; 1309-37-1
<b>41312</b> madder lake	PR179	Perylen	5521-31-3
<b>41314</b> primary magenta	PR122; PW5; PW6	Quinacridone; Barium sulfate; Titanium dioxide	980-26-7; 1345-05-7; 13463-67-7
<b>41316</b> violet	PV23	Dioxazine	6358-30-1
<b>41400</b> royal blue	PB29; PW6	Sodium aluminum silicate; Titanium dioxide	57455-37-5; 13463-67-7
<b>41402</b> primary cyan	PB15:3; PW5; PW6	Phthalocyanine (Cu); Barium sulfate; Titanium dioxide	147-14-8; 1345-05-7; 13463-67-7
<b>41404</b> cobalt blue hue	PB29; PB15:3; PV23; PW6; PW4	Sodium aluminum silicate; Phthalocyanine (Cu); Dioxazine; Titanium dioxide; Zinc oxide	57455-37-5; 147-14-8; 6358-30-1; 13463-67-7; 1314-13-2
<b>41406</b> ultramarine	PB29	Sodium aluminum silicate	57455-37-5
<b>41408</b> phthalo blue	PB15:3	Phthalocyanine (Cu)	147-14-8
<b>41410</b> indigo	PB15:3; PR101	Phthalocyanine (Cu); Iron oxide	147-14-8; 1309-37-1
<b>41412</b> Prussian blue	PB27	Iron-cyan-complex	14038-43-8; 25869-98-1
<b>41414</b> aquamarine turquoise	PB15:3; PG7; PW6	Phthalocyanine (Cu); Phthalocyanine (Cu, Cl); Titanium dioxide	147-14-8; 1328-53-6; 13463-67-7
<b>41500</b> may green	PY74; PG36; PW5; PW6	Monoazo; Phthalocyanine complex (Cu, Cl, Br); Barium sulfate; Titanium dioxide	6358-31-2; 14302-13-7; 1345-05-7; 13463-67-7
<b>41502</b> chromium oxide green brilliant	PG18	Hydrated chromium oxide	12001-99-9
<b>41504</b> green earth	PB60; PY150; PY42	Indanthrone; Azo-nickel-complex; Hydrated iron oxide	81-77-6; 68511-62-6; 20344-49-4
<b>41506</b> sap green	PB29; PY150	Sodium aluminum silicate; Azo-nickel-complex	57455-37-5; 68511-62-6
<b>41508</b> sap green	PG7	Phthalocyanine (Cu, Cl)	1328-53-6
<b>41602</b> yellow ochre	PY42	Hydrated iron oxide	20344-49-4

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### AKADEMIE® Öl color fine artists' oil colours

<b>41604</b> umber	PBr7	Earth pigment	-
<b>41606</b> Sienna	PY42; PR101	Hydrated iron oxide; Iron oxide	20344-49-4; 1309-37-1
<b>41608</b> burnt Sienna	PR101; PBr6	Iron oxide; Brown coal	1309-37-1; 72669-22-8
<b>41610</b> caput mortuum	PR101	Iron oxide	1309-37-1
<b>41612</b> burnt umber	PBr7	Earth pigment	-
<b>41614</b> Vandyke brown	PR101; PBk7	Iron oxide; Lamp black	1309-37-1; 1333-86-4
<b>41700</b> grey	PW6; PBk10	Titanium dioxide; Crystallized carbon	13463-67-7; 7782-42-5
<b>41702</b> anthracite	PBk10	Crystallized carbon	7782-42-5
<b>41704</b> lamp black	PBk11; PBk7	Iron oxide black; Lamp black	1317-61-9; 1333-86-4
<b>41800</b> silver		Aluminiumpigment	-
<b>41802</b> gold		Aluminiumpigment; Perlglanzpigment	-; -