SAFETY DATA SHEET

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

series 41 - AKADEMIE Öl color

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
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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

Emergency Information Phone #	**Emergencycall Berlin (24h - counseling in german and english) +49 (0) 30-30686790**

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

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

3.2 Mixtures

Substance 1

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.

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/m³	2(I) - inhalativ
DEU	WEL	0,100	mg/m³	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		

Refraction index

Partition coefficient: n-octanol/water
Explosive properties

Vapour pressure
Density 1,1 - 2,5 g/ml 20 °C

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

Ecotoxicological effects

1314-13-2 zinc oxide

EC50	Algae		0,170	mg/L	(72h)

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

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

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 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

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

AKADEMIE® Öl color fine artists' oil colours

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

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AKADEMIE® Öl color fine artists' oil colours

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