

SAFETY DATA SHEET

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

series 11 - NORMA Professional

Article No.
Version 3 (11.04.16)

Issue date: 11.04.16
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name series 11 - NORMA Professional
finest 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

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

Substance 1

zinc oxide: < 70 %
CAS: 1314-13-2
REACH: 01-2119463881-32-0043
Aquatic Acute 1; H400 / Aquatic Chronic 1; H410

Substance 2

hydrocarbons, C4, 1,3-butadiene-free, polymd.,
triisobutylene fraction, hydrogenated: < 5 %
CAS: 93685-81-5
REACH : 01-2119490725-xxxx
Aquatic Chronic 4; H413 / Asp. Tox. 1; H304 / Flam. Liq.
3; H226

Substance 3

hydrocarbons, C10-C12, isoalkanes, <2% aromatics: < 1,5 %
CAS: 64741-65-7
REACH: 01-2119471991-xxxx
Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Flam. Liq.
3; H226

Additional information

The colours 11 112, 114, 118, 220, 222, 234, 240, 302, 312, 348, 412, 422, 424 contain zinc oxide. (see section 12)
The colours 11 222, 238, 240, 242, 244, 300, 310, 312, 314 contain cadmium-containing pigments. The use of cadmium containing pigments is limited to artist colors.
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

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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/m ³	2(I) - inhalativ
DEU	WEL	0,100	mg/m ³	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

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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 1,2 - 20 °C
2,4 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

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Toxicological tests

1314-13-2	zinc oxide						
	oral	LD50	Rat		10000,000	mg/kg	-
	inhalative	LC50	Rat		5,700	mg/L	(4h)
64741-65-7	hydrocarbons, C10-C12, isoalkanes, <2% aromatics						
	oral	LD50	Rat		5000,000	mg/kg	-
	dermal	LD50	mg/kg		5000,000	Rat	-

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)
64741-65-7	hydrocarbons, C10-C12, isoalkanes, <2% aromatics						
	LC50	fish			100,000	mg/L	-
	EC50	Daphnia magna (Big water			100,000	mg/L	-

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

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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

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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 [%]
< 5 %
Further regulations, limitations and legal requirements

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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)

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- 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.
- H413 May cause long lasting harmful effects to aquatic life.

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

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.

Appendix for material safety data sheet no.: 11 000 000

Norma® Professional

art.nr.	art.name	C.I.		CAS-nr.
11110	translucent white	PW6	Titanium dioxide	13463-67-7
11112	zinc white	PW4	Zinc oxide	1314-13-2
11114	titanium white	PW6; PW4	Titanium dioxide; Zinc oxide	13463-67-7; 1314-13-2
11116	opaque white	PW7	Zinc sulphide	1314-98-3
11118	zinc titanium white	PW6; PW4	Titanium dioxide; Zinc oxide	13463-67-7; 1314-13-2
11220	flesh tint	PW6; PW4; PR101; PY42	Titanium dioxide; Zinc oxide; Iron oxide; Hydrated iron oxide	13463-67-7; 1314-13-2; 1309-37-1; 20344-49-4
11222	Naples yellow reddish	PW6; PW4; PO20; PY53	Titanium dioxide; Zinc oxide; Cadmium sulfo-selenide; Rutile (Ti, Ni, Sb)	13463-67-7; 1314-13-2; 12656-57-4; 8007-18-9
11224	Naples yellow deep	PBr24	Rutile (Ti, Cr, Sb)	68186-90-3
11226	Naples yellow light	PY53; PBr24	Rutile (Ti, Ni, Sb); Rutile (Ti, Cr, Sb)	8007-18-9; 68186-90-3
11228	chrome yellow hue light	PY216	Rutile (Zn, Sn)	85536-73-8
11230	chrome yellow hue middle	PY216	Rutile (Zn, Sn)	85536-73-8
11232	chrome yellow hue deep	PY216	Rutile (Zn, Sn)	85536-73-8
11234	brilliant yellow light	PW4; PBr24; PY53	Zinc oxide; Rutile (Ti, Cr, Sb); Rutile (Ti, Ni, Sb)	1314-13-2; 68186-90-3; 8007-18-9
11236	lemon yellow	PY3	Monoazo	6486-23-3
11238	cadmium yellow lemon	PY35	Cadmium-zinc-sulphide	8048-07-5; 7727-43-7
11240	cadmium yellow mix	PW6; PW4; PY35	Titanium dioxide; Zinc oxide; Cadmium-zinc-sulphide	13463-67-7; 1314-13-2; 8048-07-5; 7727-43-7
11242	cadmium yellow light	PY35	Cadmium-zinc-sulphide	8048-07-5; 7727-43-7
11244	cadmium yellow deep	PO20	Cadmium sulfo-selenide	12656-57-4
11246	brilliant yellow	PY155	Disazo	68516-73-4
11248	Indian yellow	PY153	Nickel-complex	68859-51-8
11300	cadmium orange	PO20	Cadmium sulfo-selenide	12656-57-4
11302	brilliant orange	PW4; PY184; PO67	Zinc oxide; Bismuth vanadate; Pyrazolochinazolone	1314-13-2; 14059-33-7; 74336-59-7
11304	poppy red	PO71	Diketo-pyrrolo-pyrrol	71832-85-4
11306	vermilion red light	PO67; PR255	Pyrazolochinazolone; Diketo-pyrrolo-pyrrol	74336-59-7; 120500-90-5
11308	vermilion red deep	PR255; PO62	Diketo-pyrrolo-pyrrol; Benzimidazolone	120500-90-5; 75601-68-2
11310	cadmium red light	PO20	Cadmium sulfo-selenide	12656-57-4
11312	cadmium red mix	PO20; PW4	Cadmium sulfo-selenide; Zinc oxide	12656-57-4; 1314-13-2
11314	cadmium red deep	PR108	Cadmium sulfo-selenide	58339-34-7; 7727-43-7
11316	madder light	PR207	Quinacridone	1047-16-1; 1503-48-6
11318	madder red	PR207; PR264	Quinacridone; Diketo-pyrrolo-pyrrol	1047-16-1; 1503-48-6; -
11320	madder ruby	PR264	Diketo-pyrrolo-pyrrol	-
11342	Alizarin crimson hue	PR179	Perylen	5521-31-3
11344	carmine red	PR179; PV19	Perylen; Quinacridone	5521-31-3; 1047-16-1
11346	ruby red	PR122	Quinacridone	980-26-7
11348	magenta	PR122; PW4	Quinacridone; Zinc oxide	980-26-7; 1314-13-2
11350	cobalt violet hue			

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Norma® Professional

art.nr.	art.name	C.I.		CAS-nr.
11352	violet dark	PV23	Dioxazine	6358-30-1
11400	indanthrene blue	PB60	Indanthrone	81-77-6
11402	ultramarine blue deep	PB29	Sodium aluminum silicate	57455-37-5
11404	ultramarine blue light	PB29	Sodium aluminum silicate	57455-37-5
11406	royal blue	PW6; PB29	Titanium dioxide; Sodium aluminum silicate	13463-67-7; 57455-37-5
11408	cobalt blue deep	PB74	Phenacite (Co, Zn, Si)	68412-74-8
11410	cobalt blue light	PB28	Spinel (Co, Al)	1345-16-0
11412	cobalt blue hue	PB29; PW4; PB15:6	Sodium aluminum silicate; Zinc oxide; Phthalocyanine (Cu)	57455-37-5; 1314-13-2; 147-14-8
11414	cobalt cerulean blue	PB35	Spinel (Co, Sn)	68187-05-3
11416	indigo	PB60; PR101	Indanthrone; Iron oxide	81-77-6; 1309-37-1
11418	Prussian blue	PB27	Iron-cyan-complex	14038-43-8; 25869-98-1
11420	phthalo blue	PB15:3	Phthalocyanine (Cu)	147-14-8
11422	cerulean blue	PW4; PW6; PB15:3; PG18	Zinc oxide; Titanium dioxide; Phthalocyanine (Cu); Hydrated chromium oxide	1314-13-2; 13463-67-7; 147-14-8; 12001-99-9
11424	azure blue	PW6; PW4; PB15:3	Titanium dioxide; Zinc oxide; Phthalocyanine (Cu)	13463-67-7; 1314-13-2; 147-14-8
11426	cobalt turquoise	PG50	Spinel (Co, Ni, Zn, Ti)	68186-85-6
11500	phthalo green	PG7	Phthalocyanine (Cu, Cl)	1328-53-6
11502	chromium oxide green brill.	PG18	Hydrated chromium oxide	12001-99-9
11504	emerald green	PG18; PW6; PG36; PG50	Hydrated chromium oxide; Titanium dioxide; Phthalocyanine complex (Cu, Cl, Br); Spinel (Co, Ni, Zn, Ti)	12001-99-9; 13463-67-7; 14302-13-7; 68186-85-6
11506	Schweinfurt green hue	PY216; PB28; PG19; PG18	Rutile (Zn, Sn); Spinel (Co, Al); Spinel (Co, Zn); Hydrated chromium oxide	85536-73-8; 1345-16-0; 8011-87-8; 12001-99-9
11508	permanent green	PY151; PG7	Benzimidazolone; Phthalocyanine (Cu, Cl)	61036-28-0; 1328-53-6
11510	permanent yellowish-green	PY184; PB36; PY150	Bismuth vanadate; Spinel (Co, Al, Cr); Azo-nickel-complex	14059-33-7; 68187-11-1; 68511-62-6
11512	olive green	PY42; PB60; PY150	Hydrated iron oxide; Indanthrone; Azo-nickel-complex	20344-49-4; 81-77-6; 68511-62-6
11514	sap green	PB60; PY150	Indanthrone; Azo-nickel-complex	81-77-6; 68511-62-6
11516	chromium oxide green	PG17	Hematite (Cr)	1308-38-9
11518	green earth	PY42; PBr7/PG23; PG18	Hydrated iron oxide; Earth pigment; Hydrated chromium oxide	20344-49-4; -, 12001-99-9
11600	raw light ochre	PY42; PBr7/PG23; PG18	Hydrated iron oxide; Earth pigment; Hydrated chromium oxide	20344-49-4; -, 12001-99-9
11600	raw light ochre	PY42/PY43	Hydrated iron oxide	20344-49-4
11602	yellow ochre	PY42; PBr24	Hydrated iron oxide; Rutile (Ti, Cr, Sb)	20344-49-4; 68186-90-3
11604	translucent ochre	PY42	Hydrated iron oxide	20344-49-4
11606	golden ochre	PY42; PBr7/PY43	Hydrated iron oxide; Earth pigment	20344-49-4; -
11608	raw Sienna	PY42/PY43	Hydrated iron oxide	20344-49-4
11610	burnt Sienna	PBr7	Earth pigment	-
11612	English red	PR101	Iron oxide	1309-37-1
11614	red earth	PR101	Iron oxide	1309-37-1
11616	caput mortuum	PR101	Iron oxide	1309-37-1
11618	translucent red brown	PR101	Iron oxide	1309-37-1

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art.nr.	art.name	C.I.		CAS-nr.
11620	agate brown	PR101	Iron oxide	1309-37-1
11622	raw umber	PBr7	Earth pigment	-
11624	burnt umber	PBr7	Earth pigment	-
11626	Vandyke brown	PR101; PR179; PBk7	Iron oxide; Perylen; Lamp black	1309-37-1; 5521-31-3; 1333-86-4
11700	neutral black	PR179; PG7	Perylen; Phthalocyanine (Cu, Cl)	5521-31-3; 1328-53-6
11702	black iron oxide	PBk11	Iron oxide black	1317-61-9
11704	ivory black	PBk9	Am. carbonized bones of animals	8021-99-6
11706	Payne's grey	PBk9; PV23; PB29	Am. carbonized bones of animals; Dioxazine; Sodium aluminum silicate	8021-99-6; 6358-30-1; 57455-37-5
11708	warm grey	PW6; PG17; PR101	Titanium dioxide; Hematite (Cr); Iron oxide	13463-67-7; 1308-38-9; 1309-37-1
11710	cold grey	PW6; PBk11; PG18; PY42	Titanium dioxide; Iron oxide black; Hydrated chromium oxide; Hydrated iron oxide	13463-67-7; 1317-61-9; 12001-99-9; 20344-49-4
11800	silver		Aluminum	-
11802	classic gold		Mica	-
11804	bronze		Mica	-