



SAFETY DATA SHEET
according Regulation EC No 1907/2006 and
Regulation EU No 830/2015
ARTIST'S OIL COLOUR
**(ZINC WHITE, LIGHT NAPLES YELLOW,
DARK NAPLES YELLOW, COELIN BLUE**

Date of issue: 20.2.2017
Revision:
Date of revision:

Page 1 of 11

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE)

Chemical name: -

Shadow specification:

| Shadow No. | English name |
|------------|---------------------|
| 110 | ZINC WHITE |
| 250 | LIGHT NAPLES YELLOW |
| 260 | DARK NAPLES YELLOW |
| 440 | COELIN BLUE |

Registration number: not registered (mixture)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses of the substance or mixture: Oil paints.

Uses advised against: All other uses different than identified uses.

1.3. Details of the supplier of the safety data sheet

Supplier identification

Trade name: KOH-I-NOOR HARDTMUTH a.s.
Address: F. A. Gerstnera 21/3, 371 30 České Budějovice,
závod 1, 289 03 Městec Králové

VAT number: 26055996
Phone number: +420 325 870 311/+420 325 643 241
E-mail: sales@koh-i-noor.cz

Responsible person for the safety data sheet

Name: Ing. Jiří Švachula, CSc
Trade name: EKONOX, s.r.o.
Address: V Ráji 501, 530 02 Pardubice
Phone number: +420 466 415 799
E-mail: info@ekonox.cz

1.4. Emergency telephone number

+420 602 414 051 or Toxicological information centre, Na Bojišti 1, 128 08 Prague 2,
non-stop telephone 224 919 293, 224 915 402, or (only during the day 224 914 575)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification of mixture according Directive 1272/2008/EC (CLP):

**Hazard Class and
Category Code:** Aquatic Acute 1, Aquatic Chronic 1

| | | |
|--|---|---|
|  | <p align="center">SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE)</p> | Date of issue: 20.2.2017 Revision: Date of revision: <p align="right">Page 2 of 11</p> |
|--|---|---|

H-statements: H400-H410
 For the wording of the listed H-statements, refer to section 16.

2.1.2 Other information

The most important adverse physicochemical effects: Not known.

The most important adverse for human health:

Inhalation: Not known.

Ingestion: Not known.

Contact with skin: Not known.

Contact with eyes: Not known.

The most important adverse for the environment: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling of mixture with classification according Directive 1272/2008/EC (CLP):

Hazard pictogram(s):



Signal word: Warning

H-statements: H400-H410

P-statements: P273-P391-P501

For the wording of the listed P-statements, refer to section 16.

Additional information on the packaging/label:

Contains: Zinc oxide, turpentine oil

2.3. Other hazard

Not known

SECTION 3. Composition/information on ingredients

3.1. Mixture

Product name: ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE)

Description of mixture: Mixture of zinc oxide, natural oils and additives.

| | | |
|--|---|--|
|  | SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE) | Date of issue: 20.2.2017 Revision: Date of revision: |
| | Page 3 of 11 | |

Other identification data of substances:

| 1) Index No 2) CAS No 3) EC No 4) Registration No | Chemical name | Concentration [% by weight] | Classification EC No 1272/2008 |
|---|----------------|--------------------------------|--|
| 1) 030-013-00-7 2) 1314-13-2 3) 215-222-5 4) not yet assigned | Zinc oxide | 74 - 78 | Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) |
| 1) 650-002-00-6 2) 8006-64-2 3) 232-350-7 4) 01-2119502456-45-XXXX | Turpentine oil | < 0,4 | Flam. Liq. 3 (H226), Acute Tox. 4 (H332), Acute Tox. 4 (H312), Acute Tox. 4 (H302), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317), Aquatic Chronic 2 (H411) |

For the wording of the listed H-statements, refer to section 16.

SECTION 4. First aid measures

4.1. Description of first aid measures

General information:

Symptomatic treatment. In case of health problems or in doubt seek medical treatment.

Inhalation:

Remove affected person to fresh air and make sure if it is breathing. If symptoms persist, seek medical attention.

Skin contact:

Take off contaminated clothing. Wash with plenty of water and soap, treat with protective cream. If irritation persists, seek physician.

Contact with eyes:

Remove contact lenses, hold the affected eyelids open and flush with water for at least 15 minutes. Seek medical advice.

Ingestion:

If the victim is conscious, let to drink him plenty of water. Do not induce vomiting! Seek physician immediately.

Personal protective equipment for first aid responders

According to extent of first aid given is necessary to use suitable protective equipment – isolated breathing apparatus or mask with filter and eventually the safeguarding by other worker. Always use protective gloves and resuscitation mask in the case artificial respiration. Wash carefully hands after first aid. Always change clothes if during first aid giving the contamination of clothes occurs.

Other data:

Other information concerning the delivery of first aid measures, especially in serious cases of health damage, the attending physician can consult the procedure with Toxikologické informační středisko, Praha, Czech Republic, **phone (continually):** +420 224 919 293, 224 915 402, fax 224 914 570.



SAFETY DATA SHEET
according Regulation EC No 1907/2006 and
Regulation EU No 830/2015
ARTIST'S OIL COLOUR
**(ZINC WHITE, LIGHT NAPLES YELLOW,
DARK NAPLES YELLOW, COELIN BLUE**

Date of issue: 20.2.2017

Revision:

Date of revision:

Page 4 of 11

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Not known.
Ingestion: Not known.
Contact with skin: Not known
Contact with eyes: Not known.

4.3. Indication of any immediate medical attention and special treatment needed

See section 4.1

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Alcohol-resistant foam, CO₂, dry chemical powder, spraying water mist.

Unsuitable extinguishing media:

Full water jet, danger of fire spreading.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Burning releases carbon oxides and various organic derivatives. Burning may form hazardous compounds of zinc. If the product exposed to temperatures above 370 ° C, a fire could start.

5.3. Advice for firefighters

Fire-resistant clothing and self-contained breathing apparatus.
Prevent firefighting water to escape into drains, soil or water.

5.4. Other information

Not available.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective measures:

Wear appropriate protective equipment. Avoid drying the product with the consequent formation of dust. Prevent unauthorized access. Keep away from open flames and other ignition sources. No smoking.

Emergency measures:

Wear personal protective equipment. Keep away from open flames and other ignition sources. No smoking. Ensure adequate ventilation of working areas. During a fire, evacuate area.

6.1.2 For emergency responders

Use suitable personal protective equipment to avoid contact with product.

6.2. Environmental precaution

Avoid leakage into drains/surface water/ground water. If the product contaminates surface / ground water or drains inform respective authorities.

| | | |
|---|--|---|
|  | <p align="center">SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE</p> | <p>Date of issue: 20.2.2017 Revision: Date of revision:</p> <p align="right">Page 5 of 11</p> |
|---|--|---|

6.3. Methods and material for containment and cleaning up

Methods of containment of leakage:

After using the container, have to be tightly close.

Methods for cleaning up:

Move a paste with a spatula into the appropriate container. Remove with quickly absorbing cloth or other absorption means, which then store in a labelled container and dispose of it as waste. Disposal see. Section 13.

Other information:

Not available.

6.4. Reference to other section

See Section 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

7.1.1 Protective precautions

Fire precaution:

When handling the product do not smoke, drink or eat. Wear personal protective equipment to avoid contact with skin and eyes. Avoid formation and inhalation of vapours and dust.

Precaution for elimination of dust and aerosol formation: Ensure efficient ventilation or exhausting.

Environment protection: Avoid leakage into soil/ water sources/ sewer.

7.1.2 Advice on general occupational hygiene

Wearing adequate protective equipment, avoid direct eye contact with the substance. Avoid formation and inhalation of vapours and aerosols. Avoid drying the product and subsequent formation and inhalation of dust. When handling the product do not smoke, drink or eat. After work, wash hands and face.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and conditions of storage:

Keep the packaging well labelled, tightly closed, protect them from damage. Store the product in its original packaging or in containers designed for this purpose at room temperature and dry place. Do not expose the product to temperatures below 4° C. Store in a well-ventilated place. Keep away from open flames and other ignition sources.

Incompatible materials: Strong acids, bases and oxidation agents.

Packaging materials: Container keep well labelled, tightly closed, protect it from damage.

Storage requirements: Store in cool, dry place in original closable containers.

7.3. Specific end use(s)

See section 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which the occupational concentration limits are set (Czech Republic NV 361/2007 Coll., as amended) (maximum permissible exposure limit = PEL; maximum permissible concentration = NPK-P).

| | | |
|--|--|--|
|  | SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE | Date of issue: 20.2.2017 Revision: Date of revision: |
| | Page 6 of 11 | |

| Substance | CAS number | PEL | NPK-P |
|---------------------|------------|--------------------|-------|
| | | mg.m ⁻³ | |
| Zinc oxide as Zn | 1314-13-2 | 2 | 5 |
| Turpentine– vapours | 8006-64-2 | 300 | 800 |

8.2. Exposure control

8.2.1 Appropriate engineering controls

Do not smoke, drink and eat. Hands always thoroughly wash and treat with a suitable skin cream after manipulation with product. Remove contaminated clothing and wash before reuse.
Ensure good ventilation.

8.2.2 Personal protective equipment

In the workplace, keep running water or containers with sufficient drinking water or eye washer.

8.2.2.1 Eye/ face protection

In the processing of the product, use protective glasses.

8.2.2.2 Skin protection

Hand protection: Not requested. In the case of long-term direct contact with the product, wear suitable gloves (e.g. PVC).

Other skin protection: Protective clothing, working shoes.

8.2.2.3 Respiratory protection

Insufficient workplace ventilation - use appropriate respiratory protection (respirator or mask with filter).

8.2.2.4 Thermal hazard

Not known.

8.2.3 Environmental exposure controls

Prevent leakage to surface/ underground water or sewer.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------------|
| Appearance: | paste/ liquid |
| Colour: | according to shadow (Section 1) |
| Odour: | linseed oil |
| Odour threshold: | not determined |
| pH: | not determined |
| Melting point/ freezing point: | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point: | not determined |
| Evaporation rate: | not determined |
| Flammability (solid, gas): | not flammable |
| Upper/lower explosive limits: | not determined |
| Vapour pressure: | not determined |
| Vapour density: | not determined |
| Density: | 1,5 – 2,6 g/cm ³ (20 °C) |
| Solubility: | insoluble in water, emulsifies |
| Partition coefficient: n-octanol/water: | not determined |



SAFETY DATA SHEET
according Regulation EC No 1907/2006 and
Regulation EU No 830/2015
ARTIST'S OIL COLOUR
**(ZINC WHITE, LIGHT NAPLES YELLOW,
DARK NAPLES YELLOW, COELIN BLUE**

Date of issue: 20.2.2017
Revision:
Date of revision:

Page 7 of 11

| | |
|----------------------------|--------------------------|
| Auto-ignition temperature: | cca 370 °C (linseed oil) |
| Decomposition temperature: | not determined |
| Viscosity: | not determined |
| Explosive properties: | not determined |
| Oxidising properties: | not determined |

9.2. Other information

VOC content: cca 1% by weight.

SECTION 10. Stability and reactivity

10.1. Reactivity

Product is not reactive under normal conditions of use.

10.2. Chemical stability

Product is chemical stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Under normal conditions of use, are not dangerous reactions known.

10.4. Conditions to avoid

Do not expose the product to temperatures below 4 ° C. Store at room temperature (20-30 ° C). If the product is exposed to temperatures above 370 ° C, a fire could start. Avoid drying the product.

10.5. Incompatibles materials

Strong oxidation agents, acids and bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, no formation of hazardous decomposition products. Burning releases carbon oxides and various organic derivatives. Burning may form hazardous compounds of zinc.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

| | |
|------------------------------------|----------------|
| Acute toxicity: | not determined |
| Skin corrosion/irritation: | not determined |
| Serious eye damage/irritation: | not determined |
| Respiratory or skin sensitisation: | not determined |
| Germ cell mutagenicity: | not determined |
| Carcinogenicity: | not determined |
| Reproductive toxicity: | not determined |
| STOT-single exposure: | not determined |
| STOT-repeated exposure: | not determined |
| Aspiration hazard: | not determined |

Information on likely routes of exposure: not known

Symptoms related to the physical, chemical and toxicological characteristics:

not known

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

not known



SAFETY DATA SHEET
according Regulation EC No 1907/2006 and
Regulation EU No 830/2015
ARTIST'S OIL COLOUR
**(ZINC WHITE, LIGHT NAPLES YELLOW,
DARK NAPLES YELLOW, COELIN BLUE**

Date of issue: 20.2.2017

Revision:

Date of revision:

Page 8 of 11

SECTION 12. Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Acute toxicity Zinc oxide: IC₅₀ (algae) - 0,21 mg/l/72hrs
LC₅₀ (fish) – 1,1 mg/l/96hrs
EC₅₀ (Daphnia magna) - 0,098 mg/l/72hrs

12.2. Persistence and degradability

Data are not available.

12.3. Bioaccumulative potential

Data are not available.

12.4. Mobility in soil

Data are not available.

12.5. Results of PBT and vPvB assessment

Product is not PBT or vPvB.

12.6. Other adverse effects

Not known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

13.1.1 Removing the product / packaging:

Substance treatment methods:

Product has to be disposed as hazardous waste. Product has to be disposed in accordance with law of wastes in valid version and with connecting on legal directives.

Contaminated container treatment methods:

Contaminated container has to be disposed as hazardous waste. Contaminated container has to be disposed in accordance with law of wastes in valid version and with connecting on legal directives.

13.1.2 Other information:


Waste labelling must correspond with European catalogue of waste.

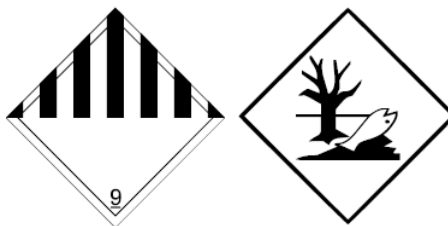
SECTION 14. Transport information

14.1. UN number

UN3082.

Labelling ADR/RID, IMDG, ITA-DGR:

| | | |
|---|--|---|
|  | <p align="center">SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE</p> | Date of issue: 20.2.2017 Revision: Date of revision: <p align="right">Page 9 of 11</p> |
|---|--|---|



14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS, LIQUID, N.O.S. (ZINC OXIDE)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

YES

14.6. Special precautions for user

Not determined

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable to product

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

CZECH NATIONAL LEGISLATION (Safety, health and environmental regulations):
 Act no. 350/2011 Coll., on chemical substances and chemical preparations

| | | |
|--|---|--|
|  | <p align="center">SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE)</p> | Date of issue: 20.2.2017 Revision: Date of revision: <p align="right">Page 10 of 11</p> |
|--|---|--|

15.2. Chemical safety assessment

Not required – mixture.

SECTION 16. Other information

16.1. Changes in MSDS

Safety Data Sheet was prepared in compliance with Regulation (EC) 1272/2008 and Regulation (EU) 2015/830 according MSDS Umělecké olejové barvy (KOH-I-NOOR HARDMUTH a.s., September 1, 2016)

16.2. Methods used for the purpose of classification of mixture (EC) No 1272/2008

Classification has been worked out according with COMMISSION REGULATION (EC) No 1272/2008, information from ECHA website and Safety Data Sheet Umělecké olejové barvy (KOH-I-NOOR HARDMUTH a.s., September 1, 2016).

List of relevant H-statements (Sections 2. and 3.):

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| 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. |

List of relevant P-statements (Sections 2. and 3.):

| | |
|------|--|
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |

16.3. Advices for training

Acquaint the workers with this Safety Data Sheet and with general rules of handling with chemical substances/ mixtures. Training carry out once time per year.

16.4. Wellspring of information for elaboration of Safety Data Sheet

MSDS Umělecké olejové barvy (KOH-I-NOOR HARDMUTH a.s., September 1, 2016)

Database of registered substances ECHA (www.echa.eu), February 2017

16.5. Abbreviations

| | |
|-------------------|---|
| Acute Tox. 4 | Acute Toxicity, Hazard Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration Toxicity, Hazard Category 1 |
| CAS | Chemical Abstracts Service |
| DNEL | Derived No Effect Level |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Hazard Category 2 |
| Flam. Liq. 3 | Flammable Liquid, Hazard Category 3 |
| LC ₅₀ | Lethal Concentration to 50% of a test population |

| | | |
|--|---|--|
|  | <p align="center">SAFETY DATA SHEET according Regulation EC No 1907/2006 and Regulation EU No 830/2015 ARTIST'S OIL COLOUR (ZINC WHITE, LIGHT NAPLES YELLOW, DARK NAPLES YELLOW, COELIN BLUE)</p> | Date of issue: 20.2.2017 Revision: Date of revision: <p align="right">Page 11 of 11</p> |
|--|---|--|

| | |
|------------------|--|
| LD ₅₀ | Lethal Dose to 50% of a test population |
| LOAEL | Lowest observed adverse effect level |
| NOEC | No Observed Effect Concentration |
| NPK-P | Maximal available concentration |
| PBT | Persistent, bioaccumulative and toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No Effect Concentration |
| Skin Irrit. 2 | Skin Irritation, Hazard Category 2 |
| Skin Sens. 1 | Skin Sensitization, Hazard Category 1 |
| vPvB | Very persistent and very bioaccumulative |

16.6. Other information

Labelling of mixture with classification according Directive 1272/2008/EC (CLP): label of packaging with a volume less than 125 ml, (Article 26 and 29, Section 1.5.2, Annex 1)

Hazard pictogram(s):



Signal word: Warning

H-statements

Allowed omissions according to section 1.5.2 of Annex I to CLP

P-statements

Allowed omissions according to section 1.5.2 of Annex I to CLP

Additional information on the packaging/label:

Contains: Zinc oxide, turpentine oil

The details in this safety data sheet are based on our status of knowledge and experience at the time of date issue. They are not a contractual assurance of quality properties of the product, and they apply only in conjunction with correct and proper handling of the product under normal conditions, and according to the details of specified use on the packing and/or in the technical instructions. The user himself is fully responsible for every other use of the product such as in combination with other products or with other processes.