

01717-XXXX**MATERIAL SAFETY DATA SHEET**

Required under OSHA's Hazard Communication Standard 29CFR 1910 1200

MANUFACTURER S NAME : ROYAL TALENS
 P.O.Box 4
 7300 AA Apeldoorn, The Netherlands
 EMERGENCY TELEPHONE NO. : 800-258-3331
 INFORMATION TELEPHONE NO : (31) 55 - 5274700
 DATE OF PREPARATION : October 3, 2000
 NAME OF PREPARER : Jan Slief

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : 0500
 PRODUCT NAME : Rembrandt Water Colours
 PRODUCT CLASS : Artist Water Color

SECTION II - HAZARDOUS INGREDIENTS

REPORTABLE COMPONENTS

| For Color# | Ingredient | CAS# | Max% By Wt | PEL/TLV | NTP | IARC |
|-------------|----------------|-----------|---------------|---------|-----|------|
| 242.539,610 | Soluble Cobalt | 7440-48-4 | 1 | 0.05 | Y | Y |

SECTION III - PHYSICAL/CHEMICAL DATA

BOILING RANGE : N/A VOLATILE BY VOLUME : Not relevant
 VAPOR DENSITY : N/A
 EVAPORATION RATE : N/A
 DENSITY : Not relevant

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION : N/A
 EXTINGUISHING MEDIA : No special media required
 UNUSUAL FIRE AND EXPLOSION HAZARDS : Not combustible
 SPECIAL FIRE FIGHTING PROCEDURES : Not required

SECTION V - REACTIVITY DATA

STABILITY : Unstable [] Stable [X]
 HAZARDOUS DECOMPOSITION PRODUCT : None
 HAZARDOUS POLYMERIZATION : None
 INCOMPATIBILITY (Materials to avoid) : None
 CONDITIONS TO AVOID : None



SECTION VI - HEALTH HAZARD DATA

For color# 242, 539 and 610

PERMISSIBLE EXPOSURE LEVEL : SEE SECTION II FOR COMPONENT PEL/TLV

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: MAY BE HARMFUL IF SWALLOWED

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: INHALATION EXPOSURE MAY CAUSE RESPIRATORY ALLERGIES. SKIN CONTACT MAY CAUSE ALLERGIC SKIN RASHES. CANCER AGENT BY INHALATION BASED ON EXPERIMENTAL DATA EXPOSURE MAY CAUSE DAMAGE TO THE HEART OR LUNGS

EXPOSURE MAY RESULT IN ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. CHRONIC EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, EASY FATIGABILITY AND CHEST PAIN

CARCINOGEN LISTING: NTP: YES IARC: YES

MEDICAL CONDITIONS USUALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT: CHRONIC DERMATITIS. HEART DISEASE

FIRST AID MEASURES: If swallowed, get prompt medical attention

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : No special spill procedures required

WASTE DISPOSAL : Dispose in accordance with federal, state and local regulations

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: None required

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC.): None required

WORK/HYGIENE PRACTICES: Avoid prolonged contact with skin. Do not spray apply Wash hands immediately after use When using do not eat, drink or smoke

SECTION IX - ADDITIONAL INFORMATION AND WARNINGS

- LHAMA labeling For color# 242, 539, 610: WARNING: MAY BE HARMFUL IF SWALLOWED, EXPOSURE MAY CAUSE ALLERGIC REACTIONS. EXPOSURE MAY CAUSE DAMAGE TO THE HEART CONTAINS: SOLUBLE COBALT. PRECAUTIONS: Avoid prolonged contact with skin Do not spray apply. Wash hands immediately after use When using do not eat, drink or smoke KEEP OUT OF REACH OF CHILDREN FIRST AID: If swallowed, get prompt medical attention
- In conformance with the Californian Safe Drinking Water and Toxic Enforcement Act (Proposition 65) the following labeling is applicable:
For color# 223, 238, 242, 403,416, 511, 534, 539, 610, 620, 623, 644, 645:
WARNING: This product contains a chemical known to the state of California to cause cancer
For color# 207, 208, 210, 211, 271, 303, 306, 314:
WARNING:DO NOT SPRAY APPLY—This product contains cadmium, a chemical known to the state of California to cause cancer by means of inhalation

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Royal Talens

SAFETY DATA SHEET

conforms to 91/155/EC
(ISO 11014)

Date: December 16, 1996

1. Identification of the product and the company

1.1. **Product:** Rembrandt Water Colours

Art. no.: 0500.0000

1.2. Company:

Royal Talens, Sophialaan 46, 7311 PD, Apeldoorn, Holland
P.O. Box 4, 7300 AA
Tel. (0)55 - 5274 700, Telefax (0)55 - 5215 286

2. Composition/information on ingredients

Dangerous components : This product is not considered to
be a hazardous product under
directive 88/379/EC

% by weight :
CAS-no :
EINECS-no. :

3. Hazards identification:

n.a.

4. First-Aid measures

Inhalation : n.a.

Skincontact : Wash with soap and water.

Eye contact : Flush with water; consult a physician.

Ingestion : Consult a physician.

5. Fire-fighting measures:

n.a.

Product: Rembrandt Water Colours

Art. no.: 0500.0000

6. Accidental release measures:

Absorb on a suitable substrate. Clean area with water.

7. Handling and storage:

n.a.

8. Exposure controls/Personal protection:

Wash hands after use.

9. Physical and chemical properties:

| | | |
|-----------------------------|---|---|
| Characterization | : | Pigments dispersed in a solution of mainly Arabic gum in water. |
| Form | : | liquid (tubes), solid (pans) |
| Odour | : | |
| pH | : | 5.0 - 5.5 (20°C) |
| Viscosity | : | approx. 14.000 mPa.s (20°C) |
| Boilingpoint/-range* | : | approx. 100 °C |
| Meltingpoint/-range* | : | °C |
| Flashpoint* | : | n.a. °C |
| Ignitiontemperature* | : | n.a. °C |
| Explosionlimits* | : | lower: n.a.; upper: n.a. |
| Vapourpressure* | : | n.a. mbar (20°C) |
| Density* | : | 1.3 - 2.3 g/m ³ (20°C) |
| Solubility in water* | : | miscible g/l |
| Sol.in White Spirit* | : | insoluble g/l |

* items tested in accordance with 67/548/EC

Other information : Pigmentspecification per colour:
See attached list.

10. Stability and reactivity:

n.a.

Product: Rembrandt Water Colours

Art. no.: 0500.0000

11. Toxicological information:
n.a.

12. Ecological information:
Avoid contamination of sewerage.

13. Disposal considerations:
Comply with local regulations.

14. Transport information:

| | | |
|--------------------------|---|--|
| UN-no. | : | |
| Land ADR/RID | : | |
| Water ADN | : | |
| Sea IMDG | : | |
| Air ICAO/IATA-DGR | : | |
| Other information | : | No transport classification. No restrictions. |

15. Regulatory information:
This product is not considered to be a hazardous preparation under directive 88/379/EC.

16. Other information:

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied

Pigmentspecification per colour:

The pigments used in our paint are indicated according to the Colour Index. The Colour Index is a system applied internationally to pigments and colouring agents used in all types of paint, thus including artists' colours. The system is based on a number and name relating to the chemical structure. The Colour Index was originally developed in the USA, which is why the descriptions of the chemical classes are given in English. The meaning of the abbreviations is as follows:

| | |
|---------------------|---------------------|
| PW = pigment white | PY = pigment yellow |
| PO = pigment orange | PR = pigment red |
| PB = pigment blue | PV = pigment violet |
| PBk= pigment black | PBr= pigment brown |

| Colour no. | Colour name | Pigment(s) | Colour index | C.I.nr |
|----------------------|--------------------|---------------------------------------|--------------|-----------------|
| WHITE | | | | |
| 108 | Chinese white | Zinc oxide | PW4 | 77947 |
| 112 | Transp.titan.white | Titanium dioxide | PW6 | 77891 |
| YELLOW/ORANGE | | | | |
| 207 | Cadmium lemon | Cadm. zinc sulfide | PY35 | 77205 |
| 208 | Cadmium yellow lt | Cadm. zinc sulfide | PY35 | 77205 |
| 210 | Cadmium yellow dp | Cadm. zinc sulfide | PY35 | 77205 |
| | | Cadm.sulfo-selenide | PO20 | 77202 |
| 211 | Cadmium orange | Cadm.sulfo-selenide | PO20 | 77202 |
| | | Cadm. zinc sulfide | PY35 | 77205 |
| 223 | Naples yellow deep | Antimony/chromium/ titanium oxides | PBr24 | 77310 |
| | | Nickel/antimony/ titanium oxides | PY53 | 77788 |
| | | Zinc oxide | PW4 | 77947 |
| 224 | Naples yellow red | Synthetic iron oxide | PY42 | 77492 |
| | | Perinone | PO43 | 56292 |
| | | Zinc oxide | PW4 | 77947 |
| 227 | Yellow ochre | Natural iron oxide | PY43 | 77492 |
| | | Synthetic iron oxide | PY42 | 77492 |
| 231 | Gold ochre | Natural iron oxide | PY43 | 77492 |
| 234 | Raw sienna | Natural iron oxide | PY43 | 77492 |
| 238 | Gamboge | Metal complex | PY150 | 12764 |
| | | Quinacridone/ Quin. quinone | PO48 | 73900/ 73920 |
| 242 | Aureoline | Potassium cobaltnitrite | PY40 | 77357 |
| 244 | Indian yellow | Benzimidazolone | PY154 | 11781 |
| | | Quinacridone/ Quin. quinone | PO48 | 73900/ 73920 |

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied.

| Colour no. | Colour name | Pigment (s) | Colour index | C. I. nr |
|------------|-----------------------------|----------------------|--------------|----------|
| 254 | Perm. lemon yellow | Bismuth vanadium | PY184 | -- |
| 265 | Transp.oxide yellow | Synthetic iron oxide | PY42 | 77492 |
| 266 | Permanent orange | Diketopyrrolopyrrole | PO71 | -- |
| | | Benzimidazolone | PY154 | 11781 |
| 268 | Azo yellow light | Benzimidazolone | FY154 | 11781 |
| 269 | Azo yellow medium | Benzimidazolone | PY154 | 11781 |
| | | Benzimidazolone | PO62 | 11775 |
| 270 | Azo yellow deep | Benzimidazolone | PY154 | 11781 |
| | | Perinone | PO43 | 71105 |
| 271 | Cadm.yellow medium | Cadm.zinc sulfide | PY35 | 77205 |
| RED | | | | |
| 303 | Cadmium red light | Cadm.seleno-sulfide | PR108 | 77202 |
| | | Cadm.sulfo-selenide | PO20 | 77202 |
| 306 | Cadmium red deep | Cadm.seleno-sulfide | PR108 | 77202 |
| 311 | Vermilion | Diketopyrrolopyrrole | PR254 | 56110 |
| | | Benzimidazolone | PY154 | 11781 |
| 314 | Cadm. red medium | Cadm.seleno-sulfide | PR108 | 77202 |
| 318 | Carmine | Diketopyrrolopyrrole | PR264 | -- |
| | | Quinacridone | PV19 | 46500 |
| 321 | Permanent madder lake light | Diketopyrrolopyrrole | PR254 | 56110 |
| | | Quinacridone | PV19 | 46500 |
| 324 | Permanent madder brown | Diketopyrrolopyrrole | PR264 | -- |
| | | Synthetic iron oxide | PR101 | 77491 |
| 325 | Permanent madder purple | Diketopyrrolopyrrole | PR264 | -- |
| | | Quinacridone | PV19 | 46500 |
| 326 | Alizarin crimson | Anthraquinone | PR83 | 58000:1 |
| 331 | Madder lake deep | Anthraquinone | PR83 | 58000:1 |
| 336 | Permanent madder lake | Diketopyrrolopyrrole | PR264 | -- |
| | | Quinacridone | PV19 | 46500 |
| 339 | Light oxide red | Synthetic iron oxide | PR101 | 77491 |
| 347 | Indian red | Synthetic iron oxide | PR101 | 77491 |
| | | Diketopyrrolopyrrole | PR264 | -- |
| 349 | Venetian red | Synthetic iron oxide | PR101 | 77491 |
| 366 | Quinacridone rose | Quinacridone | PV19 | 46500 |
| 370 | Permanent red light | Diketopyrrolopyrrole | PR254 | 56110 |
| | | Benzimidazolone | PY154 | 11781 |

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied

| Colour no. | Colour name | Pigment (s) | Colour index | C. I. nr |
|---------------------------|-------------------------|---------------------------------------|--------------|----------|
| 371 | Permanent red deep | Diketopyrrolopyrrole | PR254 | 56110 |
| 377 | Permanent red med. | Diketopyrrolopyrrole | PR254 | 56110 |
| 378 | Transparant oxide red | Synthetic iron oxide | PR101 | 77491 |
| <u>BROWN</u> | | | | |
| 403 | Vandyke brown | Synthetic iron oxide | PR101 | 77491 |
| | | Carbon black | PBk7 | 77266 |
| 408 | Raw umber | Calcined natural iron oxide | PBr7 | 77491 |
| 409 | Burnt umber | Calcined natural iron oxide | PBr7 | 77491 |
| 411 | Burnt sienna | Calcined natural iron oxide | PBr7 | 77491 |
| 416 | Sepia | Carbon black | PBk7 | 77266 |
| | | Synthetic iron oxide | PR101 | 77491 |
| 426 | Transparant oxide brown | Synthetic iron oxide | PR101 | 77491 |
| <u>BLUE/VIOLET</u> | | | | |
| 503 | French ultramarine | Polysulfide of sodium aluminosilicate | PB29 | 77007 |
| 506 | Ultramarine deep | Polysulfide of sodium aluminosilicate | PB29 | 77007 |
| 507 | Ultramarine violet | Polysulfide of sodium aluminosilicate | PV15 | 77007 |
| 508 | Prussian blue | Ferric-ferrocyanine | PB27 | 77510 |
| 511 | Cobalt blue | Cobaltous aluminate | PB28 | 77346 |
| 512 | Cobalt blue ultr. | Polysulfide of sodium aluminosilicate | PB29 | 77007 |
| | | Zinc oxide | PW4 | 77497 |
| 522 | Turquoise blue | Copper phthalocyanine | PB15 | 74160 |
| | | Chlorinated copper phthalocyanine | PG7 | 74260 |
| 532 | Mauve | Quinacridone | PV19 | 46500 |
| | | Copper phthalocyanine | PB15 | 74160 |
| 533 | Indigo | Copper phthalocyanine | PB15 | 74160 |
| | | Carbon black | PBk6 | 77266 |

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied.

| Colour no. | Colour name | Pigment(s) | Colour index | C. I. nr |
|--------------|---------------------|---|--------------|----------|
| 35 | Cerulean blue phth. | Copper phthalocyanine | PB15 | 74160 |
| | | Zinc oxide | PW4 | 77947 |
| 539 | Cobalt violet | Cobalt phosphate | PV14 | 77360 |
| 567 | Perm. red violet | Quinacridone | PV19 | 46500 |
| 568 | Perm. blue violet | Quinacridone | PV19 | 46500 |
| | | Copper phthalocyanine | PB15 | 74160 |
| 583 | Phthalo blue red | Copper phthalocyanine | PB15 | 74160 |
| 585 | Indanthrene blue | Indanthrone | PB60 | 69800 |
| GREEN | | | | |
| 610 | Cobalt green | Oxides of cobalt and zinc | PG19 | 77335 |
| 615 | Emerald green | Chlorinated and brominated phthalocyanine | PG36 | 74265 |
| 616 | Viridian | Hydrous chromium sesquioxide | PG18 | 77289 |
| 620 | Olive green | Chlorinated copper phthalocyanine | PG7 | 74260 |
| | | Metal complex | PY150 | 12764 |
| | | Quinacridone | PV19 | 46500 |
| 623 | Sap green | Metal complex | PY150 | 12764 |
| | | Chlorinated copper phthalocyanine | PG7 | 74260 |
| 629 | Green earth | Natural green earth | PG23 | 77009 |
| 633 | Perm. yellowish gr. | Benzimidazolone | PY154 | 11781 |
| | | Chlorinated copper phthalocyanine | PG7 | 74260 |
| 640 | Bluish green | Chlorinated copper phthalocyanine | PG7 | 74260 |
| | | Copper phthalocyanine | PB15 | 74160 |
| 644 | Hookers green light | Chlorinated copper phthalocyanine | PG7 | 74260 |
| | | Metal complex | PY150 | 12764 |
| 645 | Hookers green deep | Chlorinated copper phthalocyanine | PG7 | 74260 |
| | | Metal complex | PY150 | 12764 |
| 662 | Permanent green | Chlorinated copper phthalocyanine | PG7 | 74260 |
| | | Benzimidazolone | PY154 | 11781 |
| 668 | Chromium ox. green | Anhydrous chromium sesquioxide | PG17 | 77288 |
| 675 | Phthalo green | Chlorinated copper phthalocyanine | PG7 | 74260 |

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied

| Colour no. | Colour name | Pigment(s) | Colour index | C.I.nr |
|--------------------------|--------------|-----------------------|--------------|--------|
| <u>BLACK/GREY</u> | | | | |
| 701 | Ivory black | Carbon black | PBk6 | 77266 |
| 702 | Lamp black | Carbon black | PBk6 | 77266 |
| 708 | Payne's grey | Bone black | PBk9 | 77267 |
| | | Carbon black | PBk6 | 77266 |
| | | Copper phthalocyanine | PB15 | 74160 |
| 715 | Neutral tint | Carbon black | PBk6 | 77266 |
| | | Quinacridone | PV19 | 46500 |

This information is accurate to the best knowledge of Royal Talens, however it is furnished without warranty, expressed or implied