

## SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

## Information Sheet

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

#### 1.1. Product identifier

Product name Raphael Art Pigments Ital. Umbra natur grünlich

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

Intended use Dispersible pigment in aqueous solution, oils and resins

#### 1.3. Details of the supplier of the safety data sheet

Name Deffner & Johann GmbH  
Full address Mühlackerstr. 13, 97520 Rötthlein  
District and Country Germany

tel.004909723 9350-0

e-mail address info@deffner-johann.de

#### 1.4. Emergency telephone number

tel.004909723 9350-0 (Hours:8.00-12.00/14.00-15.00)

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: Not Classified.

#### 2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements:

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Precautionary statements:

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#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### SECTION 3. Composition/information on ingredients

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

It does not contain any specific classifications for the sake of the environment or for the sake of disposing of the Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantitative terms of the declaration.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

The product is not classified as dangerous according to the provisions of reg. (EC) 1272/2008 (CLP). However, for the sake of precaution, the following first aid measures are provided.

**EYES:** Remove any contact lenses. Wash with water for at least 15 minutes.

**SKIN:** Remove contaminated clothing from behind. Have a shower.

**INGESTION:** Do not administer anything that is not expressly authorized by the doctor.

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

No specific information is known about the symptoms and effects caused by the product. For symptoms and effects due to the contained substances, see chap. 11.

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

Information not available.

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not inhale any dust, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersion of the product in the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers tightly closed. Keep the product in clearly labeled containers. Keep containers away from incompatible materials, checking section 10.

### 7.3. Specific end use(s)

See section 1.2.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Information not available

### 8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

### HAND PROTECTION

None required.

### SKIN PROTECTION

None required.

### EYE PROTECTION

None required.

### RESPIRATORY PROTECTION

None required.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                         |
|--|-------------------------|
| Appearance                             | powder                  |
| Colour                                 | Green                   |
| Odour                                  | mild characteristic     |
| Odour threshold                        | Not available           |
| PH                                     | not applicable          |
| Melting point / freezing point         | not applicable          |
| Initial boiling point                  | not applicable          |
| Boiling range                          | not applicable          |
| Flash point                            | Not inflammable.        |
| Evaporation Rate                       | not applicable          |
| Flammability of solids and gases       | Not inflammable.        |
| Lower inflammability limit             | Not inflammable.        |
| Upper inflammability limit             | Not inflammable.        |
| Lower explosive limit                  | Not explosive.          |
| Upper explosive limit                  | Not explosive.          |
| Vapour pressure                        | not applicable          |
| Vapour density                         | not applicable          |
| Relative density                       | 2.60 gr/cm <sup>3</sup> |
| Solubility                             | Insoluble in water      |
| Partition coefficient: n-octanol/water | not applicable          |
| Auto-ignition temperature              | Not self-igniting.      |
| Decomposition temperature              | Not available           |
| Viscosity                              | not applicable          |
| Explosive properties                   | Not explosive.          |
| Oxidising properties                   | Not available           |

### 9.2. Other information

No other information.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

Dangerous reactions are not expected under normal use and storage conditions.

### 10.4. Conditions to avoid

None in particular. However, follow the usual precautions with regard to chemicals.

### 10.5. Incompatible materials

Information not available.

### 10.6. Hazardous decomposition products

Information not available.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

#### ACUTE TOXICITY.

LC50 (Inhalation - vapors) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Cutaneous) of the mixture: Not classified (no significant component).

#### Acute toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Skin corrosion / skin irritation

On the basis of the available data and considering the classification criteria provided in Table 3.2.3 of Annex I, of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Serious eye damage / eye irritation

On the basis of the available data and considering the classification criteria provided in Table 3.3.3 of Annex I of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Respiratory or skin sensitization

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Germ cell mutagenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Carcinogenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Reproductive toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Specific target organ toxicity fSTOTi - single exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Specific target organ toxicity fSTOTi - repeated exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

#### Danger in case of aspiration.

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

## SECTION 12. Ecological information

### 12.1. Toxicity

Based on the evaluation of the classification of components and the classification provisions of Annex I, Part 4 of Reg. (EC) 1272/2008 and s.m.i., the mixture is not classified as dangerous for the environment;

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects.

No data available.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Solid residues may be suitable for disposal in an authorised landfill site.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

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

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List /Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATADGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanita) - Italy

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on howto use chemical products.