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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>: Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>: Titanium white</td>
</tr>
<tr>
<td>Product code</td>
<td>: 001</td>
</tr>
</tbody>
</table>

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

1.2.1. Relevant identified uses

- Main use category : Industrial use, Professional use
- Use of the substance/mixture : Oilpaint

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Old Holland Classic Colours Since 1664
Nijendal 36
3972 KC Driebergen Rijssenburg - Nederland
T 0031 343 518 224 - F 0031 343 516 342
info@oldholland.com - www.oldholland.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Official advisory body</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td>Only for the purpose of informing medical personnel in cases of acute intoxications</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
<td>Only for the purpose of informing medical personnel in cases of acute intoxications</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : The product is a mixture of the ingredients mentioned below and non-dangerous additives

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide substance with a Community workplace exposure limit</td>
<td>(CAS-No.) 13463-67-7</td>
<td>70 - 90</td>
<td>Not classified</td>
</tr>
<tr>
<td>substance with a National workplace exposure limit(s) (GB)</td>
<td>(EC-No.) 236-675-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH-no) 01-2119489379-17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Titanium white

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**First-aid measures general**

Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. Call a doctor if you feel unwell.

**First-aid measures after inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

**First-aid measures after skin contact**

Remove contaminated clothes. Wash with water and soap. If skin irritation or rash occurs: Get medical advice/attention.

**First-aid measures after eye contact**

Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**First-aid measures after ingestion**

Rinse mouth. Do not induce vomiting without medical advice. Call a poison center or a doctor if you feel unwell.

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

**Symptoms/effects after skin contact**

Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

- Water spray
- Dry powder
- Foam
- Carbon dioxide
- Sand

**Unsuitable extinguishing media**

- Do not use a heavy water stream.

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

**Fire hazard**

Presents no particular fire or explosion hazard.

**Hazardous decomposition products in case of fire**

Toxic fumes may be released.

### 5.3. Advice for firefighters

**Protection during firefighting**

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**Other information**

Prevent fire fighting water from entering the environment.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures**

Ventilate spillage area.

#### 6.1.2. For emergency responders

**Protective equipment**

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

### 6.2. Environmental precautions

Avoid release to the environment.

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

**For containment**

Collect spillage.

**Methods for cleaning up**

Take up liquid spill into absorbent material.

**Other information**

Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: “Exposure-controls/personal protection”. For disposal of contaminated materials refer to section 13: “Disposal considerations”.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling**

Ensure good ventilation of the work station. Wear personal protective equipment.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

**Storage conditions**

Store in a well-ventilated place. Keep cool.

**Incompatible products**

- Strong bases
- Strong acids
- Strong oxidation agent

**Heat and ignition sources**

Keep away from heat and direct sunlight.

### 7.3. Specific end use(s)

No additional information available
Titanium white
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Titanium dioxide (13463-67-7)

EU - Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Local name</th>
<th>Titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>(Ongoing)</td>
</tr>
<tr>
<td>Regulatory reference</td>
<td>SCOEL Recommendations</td>
</tr>
</tbody>
</table>

United Kingdom - Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Local name</th>
<th>Titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL TWA (mg/m³)</td>
<td>4 mg/m³ respirable</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ total inhalable</td>
</tr>
<tr>
<td>Regulatory reference</td>
<td>EH40. HSE</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protective equipment:
Gloves.

Hand protection:
Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Permeation</th>
<th>Thickness (mm)</th>
<th>Penetration</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reusable gloves, Disposable gloves</td>
<td>Polyvinylchloride (PVC), Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>≥0.11</td>
<td></td>
<td>EN ISO 374</td>
</tr>
</tbody>
</table>

Eye protection:
Safety glasses. EN 166

Skin and body protection:
Wear suitable protective clothing. CEN : EN 340; EN 368; EN 369; EN 467

Respiratory protection:
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. EN 143

Personal protective equipment symbol(s):

Environmental exposure controls:
Avoid release to the environment.

Other information:
Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
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</thead>
<tbody>
<tr>
<td>Colour</td>
<td>White.</td>
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<tr>
<td>Odour</td>
<td>characteristic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Titanium white
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Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

10.6. Hazardous decomposition products
Combustion generates: Carbon oxides (CO, CO2).

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified
Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information
12.1. Toxicity
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
Titanium white
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
Titanium white
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12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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</thead>
<tbody>
<tr>
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<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
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<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not regulated</td>
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<td>Not regulated</td>
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<td>14.4. Packing group</td>
<td>Not regulated</td>
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<td>Not regulated</td>
<td>Not regulated</td>
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<tr>
<td>14.5. Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out
## SECTION 16: Other information

### Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2016/1179.

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed Item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Revision date</td>
<td>Modified</td>
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<tr>
<td></td>
<td>Supersedes</td>
<td>Modified</td>
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</tr>
<tr>
<td></td>
<td>UN-No. (RID)</td>
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</tr>
<tr>
<td>2.1</td>
<td>Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]</td>
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<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td>Removed</td>
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<tr>
<td>2.2</td>
<td>EUH-statements</td>
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</tr>
<tr>
<td>3</td>
<td>Composition/information on ingredients</td>
<td>Modified</td>
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<td>14.1</td>
<td>UN-No. (ADR)</td>
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</tr>
<tr>
<td>14.1</td>
<td>UN-No. (IMDG)</td>
<td>Removed</td>
<td></td>
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<tr>
<td>14.1</td>
<td>UN-No. (IATA)</td>
<td>Removed</td>
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</tr>
<tr>
<td>14.1</td>
<td>UN-No. (ADN)</td>
<td>Removed</td>
<td></td>
</tr>
</tbody>
</table>

### Abbreviations and acronyms:

- **ADR**: European Agreement concerning the International Carriage of Dangerous Goods by Road
- **ATE**: Acute Toxicity Estimate
- **CAS**: CAS (Chemical Abstracts Service) number
- **CLP**: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- **CMR**: Carcinogenic, Mutagenic, Reprotoxic
- **CSA**: Chemical Safety Assessment
- **CSR**: Chemical Safety Report
- **DNEL**: Derived-No Effect Level
- **EC50**: Median Effective Concentration (required to induce a 50% effect)
- **EINECS**: European Inventory of Existing Commercial Chemical Substances
- **GHS**: Globally Harmonized System of Classification and Labelling of Chemicals
- **IATA**: International Air Transport Association
- **IMDG**: International Maritime Code for Dangerous Goods
- **LC50**: Lethal concentration, 50 percent
- **LD50**: Lethal dose, 50 percent
- **PBT**: Persistent Bioaccumulative Toxic
- **PNEC**: Predicted No Effect Concentration (for environment)
- **REACH**: Registration, Evaluation and Authorisation of Chemical substances
- **RID**: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- **SVHC**: Substances of Very High Concern
- **vPvB**: Very Persistent and Very Bioaccumulative

### Data sources:

Titanium white
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179

Other information:
REACH Disclaimer:
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

DISCLAIMER OF LIABILITY
The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>EUH066</th>
<th>Repeated exposure may cause skin dryness or cracking.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH210</td>
<td>Safety data sheet available on request.</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.