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

· **Product identifier**

- **Trade name:** PERMACOLOR SELECT COLOR KIT

· **Relevant identified uses of the substance or mixture and uses advised against**

  No further relevant information available.

· **Application of the substance / the mixture** Construction chemicals

· **Details of the supplier of the safety data sheet**

  **Manufacturer/Supplier:**
  LATICRETE EUROPE Srl
  Bahnhofstraße 36, 4802 Ebensee AUSTRIA
  Contact: D.Pilz: +43 660 900 6500
  Mail: Info@laticreteaustria.com
  www.laticrete.eu
  Notruf Nummer: +49 / (0)70024112112(LER)
  For shipment to USA
  outside USA: +49 / (0)70024112112(LER); inside USA: +49 / (0)70024112112(contact ID: LER)

· **Further information obtainable from:** Abteilung Produktsicherheit

· **Emergency telephone number:** Während der normalen Öffnungszeiten: +49 / (0)700 24 11 21 12

2 Hazards identification

· **Classification of the substance or mixture**

  **Classification according to Regulation (EC) No 1272/2008**
  The product is not classified, according to the CLP regulation.

· **Label elements**

  **Labelling according to Regulation (EC) No 1272/2008** Void

  · **Hazard pictograms** Void
  · **Signal word** Void
  · **Hazard statements** Void

· **Additional information:**

  Contains chromium (VI). May produce an allergic reaction.
  Contains 50 % of components with unknown hazards to the aquatic environment.

· **Other hazards**

  **Results of PBT and vPvB assessment**
  · **PBT:** Not applicable.
  · **vPvB:** Not applicable.

(Contd. on page 2)
3 Composition/information on ingredients

- **Chemical characterisation:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Substance</th>
<th>Community workplace exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>diiron trioxide</td>
<td>0–60%</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>titanium dioxide</td>
<td>0–50%</td>
</tr>
<tr>
<td>1308-38-9</td>
<td>215-160-9</td>
<td>dichromium trioxide</td>
<td>0–40%</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>Carbon black</td>
<td>0–15%</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** If symptoms persist consult doctor.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed**
      - No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed**
      - No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
7 Handling and storage

· Handling:
· Precautions for safe handling: No special measures required.
· Information about fire - and explosion protection: No special measures required.
· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: No special requirements.
· Information about storage in one common storage facility: Not required.
· Further information about storage conditions: None.
· Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-37-1 diiron trioxide</td>
</tr>
<tr>
<td>WEL</td>
</tr>
<tr>
<td>Long-term value: 5* 10** 4*** mg/m³</td>
</tr>
<tr>
<td>*fume (as Fe), **total respirable, ***respirable</td>
</tr>
<tr>
<td>13463-67-7 titanium dioxide</td>
</tr>
<tr>
<td>WEL</td>
</tr>
<tr>
<td>*total inhalable **respirable</td>
</tr>
<tr>
<td>1308-38-9 dichromium trioxide</td>
</tr>
<tr>
<td>WEL</td>
</tr>
<tr>
<td>as Cr</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
</tr>
<tr>
<td>WEL</td>
</tr>
<tr>
<td>Long-term value: 3.5 mg/m³</td>
</tr>
</tbody>
</table>

· DNELs

<table>
<thead>
<tr>
<th>13463-67-7 titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

· PNECs

<table>
<thead>
<tr>
<th>13463-67-7 titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC</td>
</tr>
</tbody>
</table>

· Additional information: The lists valid during the making were used as basis.
Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not required.
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Not required.

9 Physical and chemical properties
Information on basic physical and chemical properties
General Information
Appearance:
Form: Powder
Colour: According to product specification
Odour: Odourless
Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition
Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: >2,500 °C

Flash point: Not applicable.

Flammability (solid, gas): Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:
Lower: Not determined.
Trade name: PERMACOLOR SELECT COLOR KIT

<table>
<thead>
<tr>
<th>Upper:</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Vapour pressure:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapour density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water:</td>
<td>Fully miscible. Soluble.</td>
</tr>
<tr>
<td>· Partition coefficient: n-octanol/water:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
<td>Dynamic: Not applicable. Kinematic: Not applicable.</td>
</tr>
<tr>
<td>· Solvent content:</td>
<td>VOC (EC) 0.00 %</td>
</tr>
<tr>
<td>· Solids content:</td>
<td>100.0 %</td>
</tr>
<tr>
<td>· Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

· Reactivity No further relevant information available.
· Chemical stability
  · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  · Possibility of hazardous reactions No dangerous reactions known.
  · Conditions to avoid No further relevant information available.
  · Incompatible materials: No further relevant information available.
  · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects
· Acute toxicity Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>13463-67-7 titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>LD50</td>
</tr>
<tr>
<td>&gt;5,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>LC50/96h (static)</td>
</tr>
</tbody>
</table>

· Primary irritant effect:
· Skin corrosion/irritation Based on available data, the classification criteria are not met.
· Serious eye damage/irritation Based on available data, the classification criteria are not met.
Trade name: PERMACOLOR SELECT COLOR KIT

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - 13463-67-7 titanium dioxide
      - LC50 (static) >1,000 mg/l (daphnia)
      - EC50/72h (static) >100 mg/l (Pseudokirchnerella subcapitata)

- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Not hazardous for water.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation Smaller quantities can be disposed of with household waste.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- UN-Number
  - ADR, ADN, IMDG, IATA: not regulated

- UN proper shipping name
  - ADR, ADN, IMDG, IATA: not regulated
Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class: not regulated

Packing group
- ADR, IMDG, IATA: not regulated

Environmental hazards:
Not applicable.

Special precautions for user
- EMS Number: F-A, S-J
- Stowage Category: A
- Stowage Code: SW1 Protected from sources of heat.
- Handling Code: H2 Keep as cool as reasonably practicable

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

UN "Model Regulation": not regulated

15 Regulatory information
- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Abteilung Umweltschutz
- Contact: Doris Pilz-

Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative