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

1.1. Product identifier

Sicoklar E71-81.xx COLOR

Further trade names

xx = MFI

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

Use of the substance/mixture

Manufacturing of plastic articles and goods including compounding and conversion, eventually recycling.

1.3. Details of the supplier of the safety data sheet

Company name: Ravago Distribution Center NV
Street: Moerenstraat 85 A
Place: B 2370 Arendonk
Telephone: +32 (0) 14672511 Telefax: +32 (0) 14672012
e-mail: sdsinfo@ravago.com
Internet: www.ravago.com

1.4. Emergency telephone number

+32(0)14672511

Further Information

Type of use: Injection moulding, blow moulding, Extrusion, Compression moulding.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

2.3. Other hazards

The hazards of this product are mainly associated with its processing

See section 11 for more detailed information on health effects and symptoms

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Thermoplastic polymer (PC)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!
Provide adequate ventilation.

After inhalation

Provide adequate ventilation.
In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.
Consult physician.

After contact with skin

The melted product can cause severe burns.
Do not use force or solvents to remove product incrustations from affected skin areas.
After contact with molten product, cool skin area rapidly with cold water.
Consult physician.

**After contact with eyes**
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**
Consult physician.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**
- Water.
- Foam.
- Carbon dioxide (CO2).
- Extinguishing powder.
- Alcohol resistant foam.
- Sand.

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

- Carbon dioxide.
- Carbon monoxide.
- Hydrocarbons.
- Bromine hydrogen (HBr).
- HF

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

### SECTION 6: Accidental release measures

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

High slip hazard because of leaking or spilled product. (Granulate)

#### 6.2. Environmental precautions

No special environmental protection measures are necessary.

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

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Do not empty into drains.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Advice on safe handling**
Provide adequate ventilation. Equipment with built-in suction provisions.

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

**Requirements for storage rooms and vessels**
- Keep in a cool place.
- Provide adequate ventilation.

**Advice on storage compatibility**
- Storage stability:
- Storage temperature: ≤ 40 °C unlimited durability.
- No special precautionary measures are necessary.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure limits (EH40)**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>-</td>
<td>3.5</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>7</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide, respirable</td>
<td>-</td>
<td>4</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

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Print date: 17.05.2019
8.2. Exposure controls

Protective and hygiene measures
Provide adequate ventilation. Equipment with built-in suction provisions.
When using do not eat, drink or smoke. Do not breathe dust.

Eye/face protection
Wear eye/face protection.

Hand protection
Wear suitable gloves.

Skin protection
Only wear fitting, comfortable and clean protective clothing.
In case of increasing hazard add: heat-resistant synthetic fibres

Respiratory protection
Respiratory protection necessary at: In the case of the formation of dust. (half-mask with filter (DIN EN 149).)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>solid (Granulate)</td>
</tr>
<tr>
<td>Colour</td>
<td>various</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
</tbody>
</table>

Test method:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>220-240 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>In the case of the formation of dust. Dust explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>1.2-1.30 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>point of decomposition</td>
<td>&gt;300 °C</td>
</tr>
<tr>
<td>Package density</td>
<td>600-800 kg/m³</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.6. Hazardous decomposition products
Carbon dioxide. Carbon monoxide hydrocarbons.

Further information
No risks worthy of mention.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Further information
When used and handled according to the specifications, this product does not have any harmful effects to human health according to our experience and the information available. Contact the manufacturer in case the material is to be used in special applications such as in contact with food or for hygiene, medical or surgical
end-use.

SECTION 12: Ecological information

12.1. Toxicity
   Insoluble in: Water.
   Due to the consistency along with the low water solubility of the product, bioavailability is unlikely.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
   Advice on disposal
   Can be burnt together with household waste in compliance with official regulations in contact with approved
   waste disposal companies and with authorities in charge.
   Material recycling possible.
   Refer to manufacturer or supplier for information on recovery or recycling.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): none

Marine transport (IMDG)
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): none

Air transport (ICAO-TI/IATA-DGR)
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): none

14.5. Environmental hazards
   ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
   No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
   No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
   National regulatory information
   Water contaminating class (D): - - not water contaminating

SECTION 16: Other information

Further Information
   The information is based on present level of our knowledge. It does not, however, give assurances of product
properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

This safety datasheet should be used in conjunction with technical datasheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose than that for which it was intended. This does not in any way excuse the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility. Furthermore, this safety datasheet is made up based on the legal requirements as set by EC 1272/2008 based on information as is available per July 2017 (date of entry into force). That information that is not yet filled in depends on the input we receive from our suppliers following the time scale as foreseen by EC 1272/2008 and depends solely on the registration of the concerned substances.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)