SAFETY DATA SHEET

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

1.1. Product identifier
   - Trade name
     UNIGUM
   - Product no.
   - REACH registration number
     Not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against
   - Relevant identified uses of the substance or mixture
     Sealant
   - Uses advised against
     The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet
   - Company and address
     Unipak A/S
     Marktoften 3C
     8464 Galten
     Denmark
   - E-mail
     sales@unipak.dk
   - SDS date
     2017-08-21
   - SDS Version
     2.0

1.4. Emergency telephone number
   +45 8626 1177 (normal opening time)
   Contact The National Poisons Information Service (dial 111, 24 h service).
   See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   - Not classified according to Regulation (EC) No. 1272/2008 (CLP)

2.2. Label elements
   - Hazard pictogram(s)
     -
   - Signal word
     -
   - Hazard statement(s)
     -
   - Safety statement(s)
     General
     Prevention   -
     Response    -
     Storage     -
     Disposal    -

Identity of the substances primarily responsible for the major health hazards
-
2.3. Other hazards

- Additional labelling
  - Safety data sheet available on request. (EUH210)
- Additional warnings
  - VOC
    - 0 g/l

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

<table>
<thead>
<tr>
<th>NAME:</th>
<th>talc (Mg3H2(SiO3)4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDENTIFICATION NOS.:</td>
<td>CAS-no: 14807-96-6 EC-no: 238-877-9</td>
</tr>
<tr>
<td>CONTENT:</td>
<td>25-40%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME:</th>
<th>Calcium carbonate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTENT:</td>
<td>25-40%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME:</th>
<th>TiO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDENTIFICATION NOS.:</td>
<td>CAS-no: 13463-67-7 EC-no: 236-675-5 REACH-no: 01-2119489379-17</td>
</tr>
<tr>
<td>CONTENT:</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME:</th>
<th>Fatty acids, C16-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDENTIFICATION NOS.:</td>
<td>CAS-no: 67701-03-5 EC-no: 266-928-5 REACH-no: 01-2119543709-29</td>
</tr>
<tr>
<td>CONTENT:</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>Skin Irrit. 2, Eye Irrit. 2 H315, H319</td>
</tr>
</tbody>
</table>

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

- 

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation
Bring the person into fresh air and stay with him.

Skin contact
Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact
Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion
Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns
According to EC-Regulation 2015/830

Not applicable

4.2. Most important symptoms and effects, both acute and delayed
Nothing special

4.3. Indication of any immediate medical attention and special treatment needed
Nothing special

Information to medics
Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture
Nothing special

5.3. Advice for firefighters
No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
No specific requirements.

6.2. Environmental precautions
No specific requirements.

6.3. Methods and material for containment and cleaning up
Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections
See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities
Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature
No data available.

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

TiO2
Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Calcium carbonate
Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

talc (Mg3H2(SiO3)4)
Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

DNEL / PNEC
According to EC-Regulation 2015/830

**DNEL (TiO2):** 10 mg/m³  
**Exposure:** Inhalation  
**Duration of Exposure:** Long term

**DNEL (Fatty acids, C16-C18):** 10 mg/kg  
**Exposure:** Dermal  
**Duration of Exposure:** Long term – Systemic effects - Workers

**PNEL (TiO2):** 0.127 mg/L  
**Exposure:** Freshwater  
**PNEC (TiO2):** >= 1 mg/L  
**Exposure:** Marine water  
**PNEC (TiO2):** 0.61 mg/L  
**Exposure:** Water  
**PNEC (TiO2):** >= 1000 mg/L  
**Exposure:** Freshwater sediment  
**PNEC (TiO2):** >= 100 mg/L  
**Exposure:** Marine water sediment  
**PNEC (TiO2):** 100 mg/L  
**Exposure:** Soil  
**PNEC (TiO2):** >= 100 mg/L  
**Exposure:** Sewage Treatment Plant

### 8.2. Exposure controls
Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

**General recommendations**
Smoking, eating and drinking are not allowed in the work premises

**Exposure scenarios**
In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

**Exposure limits**
Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

**Appropriate technical measures**
Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

**Hygiene measures**
In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

**Measures to avoid environmental exposure**
No specific requirements.

**Individual protection measures, such as personal protective equipment**

- **Generally**
  Use only CE marked protective equipment.

- **Respiratory Equipment**
  No specific requirements.

- **Skin protection**
  No specific requirements.

- **Hand protection**
  Recommended: Nitrile rubber

- **Eye protection**
  No specific requirements.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th><strong>Property</strong></th>
<th><strong>Value</strong></th>
<th><strong>Remarks</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Pasta</td>
<td></td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic</td>
<td></td>
</tr>
<tr>
<td><strong>Odour threshold (ppm)</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity (40°C)</strong></td>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>
According to EC-Regulation 2015/830

Density (g/cm³)  
1,9

**Phase changes**
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Vapour pressure: No data available.
- Decomposition temperature (°C): No data available.
- Evaporation rate (n-butylacetate = 100): No data available.

**Data on fire and explosion hazards**
- Flash point (°C): No data available.
- Ignition (°C): No data available.
- Auto flammability (°C): No data available.
- Explosion limits (% v/v): No data available.
- Explosive properties: No data available.

**Solubility**
- Solubility in water: Insoluble
- n-octanol/water coefficient: No data available.

**9.2. Other information**
- Solubility in fat (g/L): No data available.

**SECTION 10: Stability and reactivity**

10.1. Reactivity  
No data available

10.2. Chemical stability  
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions  
Nothing special

10.4. Conditions to avoid  
Nothing special

10.5. Incompatible materials  
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products  
The product is not degraded when used as specified in section 1.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Route of exposure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C16-C18</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>Fatty acids, C16-C18</td>
<td>Rabbit</td>
<td>LD50</td>
<td>Dermal</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>TiO2</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>TiO2</td>
<td>Rat</td>
<td>LC50</td>
<td>Inhalation</td>
<td>&gt;6,8 mg/L/4h</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt;2000 mg/L</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**  
No data available.

**Serious eye damage/irritation**  
No data available.

**Respiratory or skin sensitisation**  
No data available. Data on substance: TiO2  
Organism: Rat

**Germ cell mutagenicity**  
Data on substance: Fatty acids, C16-C18  
Test: OECD Guideline 476  
Organism: Rat  
Result: Negative

**Carcinogenicity**  
Data on substance: TiO2

**Reproductive toxicity**  
No data available.
According to EC-Regulation 2015/830

**STOT-single exposure**
No data available.

**STOT-repeated exposure**
No data available.

**Aspiration hazard**
No data available.

**Long term effects**
Repeated and long-term contact with the product can cause redness and irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Duration</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C16-C18</td>
<td>Fish</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>Fatty acids, C16-C18</td>
<td>Daphnia</td>
<td>EC50</td>
<td>47h</td>
<td>&gt;32 mg/L</td>
</tr>
<tr>
<td>Fatty acids, C16-C18</td>
<td>Algae</td>
<td>ErC50</td>
<td>72h</td>
<td>&gt;0.9 mg/L</td>
</tr>
<tr>
<td>TiO2</td>
<td>Fish</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>TiO2</td>
<td>Daphnia</td>
<td>EC50</td>
<td>48h</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>TiO2</td>
<td>Algae</td>
<td>EC50</td>
<td>72h</td>
<td>61 mg/L</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Fish</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;10000 mg/L</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Algae</td>
<td>LC50</td>
<td>72h</td>
<td>&gt;200 mg/L</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Daphnia</td>
<td>LC50</td>
<td>48h</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>talc (Mg3H2(SiO3)4)</td>
<td>Fish</td>
<td>LC50</td>
<td>24h</td>
<td>&gt;100 mg/L</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biodegradability</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>TiO2</td>
<td>No</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Potential bioaccumulation</th>
<th>LogPow</th>
<th>BCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>TiO2</td>
<td>No</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No data available

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

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

**Waste**

EWC code 08 04 99 wastes not otherwise specified

**Specific labelling**

- 

**Contaminated packing**

No specific requirements.

### SECTION 14: Transport information

#### 14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

**ADR/RID**

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

Notes -
According to EC-Regulation 2015/830

Tunnel restriction code -

IMDG

UN-no. -
Proper Shipping Name -
Class -
PG* -
EmS -
MP** -
Hazardous constituent -

IATA/ICAO

UN-no. -
Proper Shipping Name -
Class -
PG* -

14.5. Environmental hazards
- 

14.6. Special precautions for user
- 

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No data available

(*) Packing group
(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application
People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education
- 

Additional information
- 

Sources
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment
No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

The full text of identified uses as mentioned in section 1
- 

Additional label elements
- 

Other
In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture
According to EC-Regulation 2015/830

...unigum... is based on:
The classification of the mixture in regard of physical hazards has been based on experimental data.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

The safety data sheet is validated by

Date of last essential change
(First cipher in SDS version)
-
Date of last minor change
(Last cipher in SDS version)
-