

**Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 1 / 19

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

**1.1 Product identifier**

**Perfect-Fill, Dickschicht Füller – grau**  
**Article number: PFL1045**

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

**1.2.1 Relevant uses**

Fillers  
Primer

**1.2.2 Uses advised against**

None known.

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

**Company** Voelkel Industrie Produkte GmbH  
Rudolf-Diesel-Strasse 11  
86551 Aichach / GERMANY  
Phone +49 (0) 8251 9047 5 0  
Fax +49 (0) 8251 9047 5 99  
Homepage [www.vip-gmbh.com](http://www.vip-gmbh.com)  
E-mail [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

**Address enquiries to**

**Technical information** [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

**1.4 Emergency telephone number**

**Advisory body** +49 (0)89-19240 (24h) (English)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.  
Skin Irrit. 2: H315 Causes skin irritation.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3: H336 May cause drowsiness or dizziness.  
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 2 / 19

### 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Butanone

Xylene, mixture of isomers

Fatty acids, C14-18 and C16-18-unsatd., maleated

Maleic anhydride

#### Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulation.

ca. 32,27 % of the mixture consists of ingredient(s) of unknown toxicity (inhalative).

#### Special labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

#### Physico-chemical hazards

Heat causes increase in pressure and risk of bursting.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

# Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 3 / 19

## 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - 50	Butanone CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
30 - 50	Petroleum gases, liquefied (< 0,1% 1,3-butadiene) CAS: 68476-85-7, EINECS/ELINCS: 270-704-2, EU-INDEX: 649-202-00-6 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Liquefied gas): H280
5 - 20	Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Acute Tox. 4: H312 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Asp. Tox. 1: H304 - STOT SE 3: H335 - STOT RE 2: H373
5 - 10	Titanium dioxide (<10µm) CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, EU-INDEX: 022-006-00-2, Reg-No.: 01-2119489379-17-XXXX GHS/CLP: Carc. 2: H351
3 - 5	Ethylbenzene CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX GHS/CLP: Flam. Liq. 2: H225 - Acute Tox. 4: H332 - Asp. Tox. 1: H304 - STOT RE 2: H373
0,1 - 0,25	Fatty acids, C14-18 and C16-18-unsatd., maleated CAS: 85711-46-2, EINECS/ELINCS: 288-306-2, Reg-No.: 01-2119976378-19-XXXX GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317
0,001 - < 0,1	Maleic anhydride CAS: 108-31-6, EINECS/ELINCS: 203-571-6, EU-INDEX: 607-096-00-9, Reg-No.: 01-2119472428-31-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Resp. Sens. 1: H334 - STOT RE 1: H372 - EUH071 SCL [%]: >=0,001: Skin Sens. 1A: H317

### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.

#### Inhalation

Ensure supply of fresh air.  
Remove the victim into fresh air and keep him calm.  
In the event of symptoms seek medical treatment.

#### Skin contact

When in contact with the skin, clean with soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### Ingestion

Get medical advice.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

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

Irritant effects  
Allergic reactions  
Drowsiness  
Dizziness

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

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	Full water jet

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

Risk of formation of toxic pyrolysis products.  
Bursting aerosols can be forcibly projected from a fire.

### **5.3 Advice for firefighters**

Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## **SECTION 6: Accidental release measures**

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

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
Wear suitable protective equipment. For personal protection see SECTION 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### **6.4 Reference to other sections**

See SECTION 8+13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Use only in well-ventilated areas.  
Avoid spilling or spraying in enclosed areas.  
Avoid contact with eyes and skin. Use personal protective equipment.  
Keep away from open flames, hot surfaces and sources of ignition.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Do not pierce or burn, even after use.  
Take precautionary measures against static discharges.  
Use explosion-proofed equipment/fittings and non-sparking tools.  
Do not eat, drink, smoke or take drugs at work.  
Take off contaminated clothing and wash before reuse.  
Wash hands before breaks and after work.  
Use barrier skin cream.



Safety Data Sheet REACH(UK) (GB)

## **Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 5 / 19

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep away from heat, sparks and open flames.

Protect from sun.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Recommended storage temperature: < 25 °C

### **7.3 Specific end use(s)**

See product use, SECTION 1.2

# Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 6 / 19

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Long-term exposure: 50 ppm, 220 mg/m <sup>3</sup> , Sk, BMGV
Short-term exposure (15-minute): 100 ppm, 441 mg/m <sup>3</sup>
Titanium dioxide (<10µm)
CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, EU-INDEX: 022-006-002, Reg-No.: 01-2119489379-17-XXXX
Long-term exposure: 4 mg/m <sup>3</sup> , respirable; total inhalable: TWA=10 mg/m <sup>3</sup>
Petroleum gases, liquefied (< 0,1% 1,3-butadiene)
CAS: 68476-85-7, EINECS/ELINCS: 270-704-2, EU-INDEX: 649-202-00-6
Long-term exposure: 1000 ppm, 1750 mg/m <sup>3</sup> , Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)
Short-term exposure (15-minute): 1250 ppm, 2180 mg/m <sup>3</sup>
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX
Long-term exposure: 100 ppm, 441 mg/m <sup>3</sup> , Sk
Short-term exposure (15-minute): 125 ppm, 552 mg/m <sup>3</sup>
Butanone
CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
Long-term exposure: 200 ppm, 600 mg/m <sup>3</sup> , Sk, BmgV
Short-term exposure (15-minute): 300 ppm, 899 mg/m <sup>3</sup>
Maleic anhydride
CAS: 108-31-6, EINECS/ELINCS: 203-571-6, EU-INDEX: 607-096-00-9, Reg-No.: 01-2119472428-31-XXXX
Long-term exposure: 1 mg/m <sup>3</sup> , Sen
Short-term exposure (15-minute): 3 mg/m <sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Eight hours: 50 ppm, 221 mg/m <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 442 mg/m <sup>3</sup>
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX
Eight hours: 100 ppm, 442 mg/m <sup>3</sup> , H
Short-term (15-minute): 200 ppm, 884 mg/m <sup>3</sup>
Butanone
CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
Eight hours: 600 mg/m <sup>3</sup>
Short-term (15-minute): 300 ppm, 900 mg/m <sup>3</sup>

DNEL

# Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 7 / 19

Substance
Butanone, CAS: 78-93-3
Industrial, dermal, Long-term - systemic effects, 1161 mg/kg bw/day,
Industrial, inhalative (vapor), Long-term - systemic effects, 600 mg/m³,
general population, oral, Long-term - systemic effects, 31 mg/kg bw/day,
general population, dermal, Long-term - systemic effects, 412 mg/kg bw/day,
general population, inhalative (vapor), Long-term - systemic effects, 106 mg/m³,
Ethylbenzene, CAS: 100-41-4
Industrial, inhalative, Long-term - systemic effects, 77 mg/m³,
Industrial, inhalative, Acute - local effects, 293 mg/m³,
Industrial, dermal, Long-term - systemic effects, 180 mg/kg bw/day,
general population, inhalative, Long-term - systemic effects, 15 mg/m³,
general population, oral, Long-term - systemic effects, 1,6 mg/kg bw/day,
Titanium dioxide (<10µm), CAS: 13463-67-7
Industrial, inhalative (dust), Long-term - local effects, 10 mg/m³,
general population, oral, Long-term - systemic effects, 700 mg/kg/day,
Xylene, mixture of isomers, CAS: 1330-20-7
Industrial, dermal, Long-term - systemic effects, 180 mg/kg bw/d,
Industrial, inhalative, Acute - local effects, 289 mg/m³,
Industrial, inhalative, Long-term - systemic effects, 77 mg/m³,
Industrial, inhalative, Acute - systemic effects, 289 mg/m³,
general population, oral, Long-term - systemic effects, 1,6 mg/kg bw/d,
general population, inhalative, Acute - local effects, 174 mg/m³,
general population, inhalative, Acute - systemic effects, 174 mg/m³,
general population, inhalative, Long-term - systemic effects, 14,8 mg/m³,
general population, dermal, Long-term - systemic effects, 108 mg/kg bw/d,
Maleic anhydride, CAS: 108-31-6
Industrial, inhalative, Long-term - local effects, 320 µg/m³,
Industrial, dermal, Long-term - systemic effects, 200 µg/kg bw/day,
Industrial, dermal, Acute - systemic effects, 200 µg/kg bw/day,
Industrial, inhalative, Acute - systemic effects, 800 µg/m³,
Industrial, inhalative, Long-term - systemic effects, 190 µg/m³,
general population, oral, Long-term - systemic effects, 60 µg/kg bw/day,
general population, inhalative, Long-term - local effects, 80 µg/m³,
general population, dermal, Acute - systemic effects, 100 µg/kg bw/day,
general population, dermal, Long-term - systemic effects, 100 µg/kg bw/day,
general population, oral, Acute - systemic effects, 100 µg/kg bw/day,
general population, inhalative, Long-term - systemic effects, 50 µg/m³,
Fatty acids, C14-18 and C16-18-unsatd., maleated, CAS: 85711-46-2
Industrial, dermal, Long-term - systemic effects, 3 mg/kg bw/day,
general population, dermal, Long-term - systemic effects, 1,5 mg/kg bw/day,
general population, oral, Long-term - systemic effects, 1,5 mg/kg bw/day,

## PNEC

Substance
Butanone, CAS: 78-93-3
sediment (seawater), 284,74 mg/kg,

**Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 8 / 19

freshwater, 55,8 mg/L,
seawater, 55,8 mg/L,
sediment (freshwater), 284,74 mg/kg,
soil, 22,5 mg/kg,
oral (food), 1000 mg/kg,
sewage treatment plants (STP), 709 mg/L,
Ethylbenzene, CAS: 100-41-4
soil, 2,68 mg/kg soil dw,
freshwater, 0,1 mg/l,
sediment, 0,01 mg/l,
sewage treatment plants (STP), 9,6 mg/l,
sediment (freshwater), 13,7 mg/kg sediment dw,
sediment (seawater), 1,37 mg/kg sediment dw,
Titanium dioxide (<10µm), CAS: 13463-67-7
oral (food), 1667 mg/kg,
soil, 100 mg/kg,
sediment (seawater), 100 mg/kg,
sediment (freshwater), 1000 mg/kg,
sewage treatment plants (STP), 100 mg/l,
seawater, 1 mg/l,
freshwater, 0,127 mg/l,
Xylene, mixture of isomers, CAS: 1330-20-7
soil, 2,31 mg/kg dw,
seawater, 0,327 mg/l,
freshwater, 0,327 mg/l,
sewage treatment plants (STP), 6,58 mg/l,
sediment (seawater), 12,46 mg/kg,
sediment (freshwater), 12,46 mg/kg,
Maleic anhydride, CAS: 108-31-6
soil, 10 - 41,5 µg/kg soil dw,
freshwater, 75 - 100 µg/L,
seawater, 7,5 - 10 µg/L,
sewage treatment plants (STP), 4,46 - 44,6 mg/L,
sediment (freshwater), 60 - 334 µg/kg sediment dw,
sediment (seawater), 6 - 33,4 µg/kg sediment dw,
oral (food), 6,67 mg/kg food,



## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 9 / 19

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,11 mm Butyl rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Solvent-resistant protective clothing (EN 340)
<b>Other</b>	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	aerosol
<b>Color</b>	grey
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	Extremely flammable aerosol.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	0,771 - 0,774
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	not applicable
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not applicable
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature [°C]</b>	not applicable
<b>Particle characteristics</b>	Titanium dioxide: ≤10µm

**Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 10 / 19

**9.2 Other information**

none

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Heat causes increase in pressure and risk of bursting.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).  
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No dangerous reactions known if used as directed.  
In the event of fire: See SECTION 5.

## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 11 / 19

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg,
Substance
Butanone, CAS: 78-93-3
LD50, oral, Rat, 3300 mg/kg (Lit.),
Ethylbenzene, CAS: 100-41-4
LD50, oral, Rat, 3500 mg/kg,
Titanium dioxide (<10µm), CAS: 13463-67-7
LD50, oral, Rat, > 5000 mg/kg OECD 425,
Xylene, mixture of isomers, CAS: 1330-20-7
LD50, oral, Rat, 4300 mg/kg,
Maleic anhydride, CAS: 108-31-6
LD50, oral, Rat, 1 090 mg/kg bw,
Fatty acids, C14-18 and C16-18-unsatd., maleated, CAS: 85711-46-2
LD50, oral, > 2000 mg/kg,

##### Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg,
Substance
Butanone, CAS: 78-93-3
LD50, dermal, Rabbit, > 5000 mg/kg (Lit.),
Ethylbenzene, CAS: 100-41-4
LD50, dermal, Rabbit, 17800 mg/kg,
Titanium dioxide (<10µm), CAS: 13463-67-7
LD50, dermal, Rabbit, > 5000 mg/kg,
Xylene, mixture of isomers, CAS: 1330-20-7
LD50, dermal, Rabbit, 4300 mg/kg,
Maleic anhydride, CAS: 108-31-6
LD50, dermal, Rabbit, 2 620 mg/kg bw,
Fatty acids, C14-18 and C16-18-unsatd., maleated, CAS: 85711-46-2
LD50, dermal, > 2000 mg/kg,

##### Acute inhalational toxicity

Product
ATE-mix, inhalative, > 20 mg/l/4h,
Substance
Butanone, CAS: 78-93-3
LC50, inhalative, Rat, > 20 mg/l/4h (Lit.),

# Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 12 / 19

Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7
LC50, inhalative, Rat, > 20 mg/l/4h,
Ethylbenzene, CAS: 100-41-4
LC50, inhalative, Rat, 17,2 mg/l (4 h),
Titanium dioxide (<10µm), CAS: 13463-67-7
LC50, inhalativ (dust), Rat, > 6,8 mg/l 4h,
Xylene, mixture of isomers, CAS: 1330-20-7
LC50, inhalative, Rat, 27 - 47 mg/l (4 h),
Maleic anhydride, CAS: 108-31-6
LC50, inhalative, Rat, 4,35 mg/m³ (1 h),

## Serious eye damage/irritation

Irritant  
Calculation method

Substance
Butanone, CAS: 78-93-3
Rabbit, OECD 405, irritant,

## Skin corrosion/irritation

Irritant  
Calculation method

## Respiratory or skin sensitisation

May cause an allergic skin reaction.  
Calculation method  
Classification was carried out based on substance-specific concentration limits.

## Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.  
Calculation method

## Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.  
Calculation method

Substance
Butanone, CAS: 78-93-3
NOAEC, inhalation (vapour ), Rat, 5041 ppm, OECD 413,
Ethylbenzene, CAS: 100-41-4
NOAEL, oral, Rat, 75 mg/kg bw/day,
NOAEC, inhalative, Rat, 250 - 1000 ppm,
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEL, oral, Rat, 250 mg/kg bw/day,
NOAEC, inhalative, Rat, 3515 mg/m³,

## Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

## Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

## Carcinogenicity

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEL, oral, Rat, 500 mg/kg bw/day,

## Aspiration hazard

May be fatal if swallowed and enters airways.  
Calculation method

## General remarks

Toxicological data of complete product are not available.

# Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 13 / 19

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Butanone, CAS: 78-93-3
LC50, (48h), Leuciscus idus, > 100 mg/l (Lit.),
EC50, (48h), Daphnia magna, > 100 mg/l (Lit.),
Ethylbenzene, CAS: 100-41-4
LC50, (96h), Oncorhynchus mykiss, 4,2 mg/l,
LC50, (96h), Carassius auratus, 94,44 mg/l,
LC50, (96h), Pimephales promelas, 12,1 mg/l,
EC50, (48h), Daphnia magna, 1,8 - 2,9 mg/l,
IC50, (72h), Selenastrum capricornutum, 4,6 mg/l,
Titanium dioxide (<10µm), CAS: 13463-67-7
LC50, (96h), Pimephales promelas, > 1000 mg/l,
LC50, (48h), Daphnia magna, > 100 mg/l,
EC50, (72h), Pseudokirchneriella subcapitata, 16 mg/l,
Xylene, mixture of isomers, CAS: 1330-20-7
LC50, (48h), Leuciscus idus, 86 mg/l,
LC50, (96h), Oncorhynchus mykiss, 14 mg/l,
LC50, (96h), Pimephales promelas, 13,4 mg/l,
EC50, (24h), Daphnia magna, 165 mg/l (OECD 202),
EC50, (48h), Daphnia magna, 1,0 - 4,7 mg/l,
EC50, (72h), Selenastrum capricornutum, 2,6 - 7,6 mg/l,
EC50, Bacteria, 1 - 10 mg/l,
Maleic anhydride, CAS: 108-31-6
LC50, (96h), fish, 75 mg/L,
EC50, (72h), Algae, 74,32 - 150 mg/L,
EC50, (48h), Invertebrates, 42,81 - 330 mg/L,

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	CAS 78-93-3: Biodegradable. CAS 1330-20-7: Biodegradable. CAS 100-41-4: Biodegradable. CAS 108-31-6: Biodegradable. CAS 13463-67-7: The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

CAS 78-93-3: log Pow 0,3  
CAS 1330-20-7: log Pow 3,2  
CAS 100-41-4: log Pow 3,6  
CAS 108-31-6: log Pow -2,61

## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 14 / 19

### 12.4 Mobility in soil

CAS 78-93-3: log Koc 1,53  
CAS 1330-20-7: log Koc 2,73  
CAS 100-41-4: log Koc 2,71  
CAS 108-31-6: log Koc 1,63

### 12.5 Results of PBT and vPvB assessment

CAS 78-93-3 / CAS 100-41-4 / CAS 1330-20-7 / CAS 108-31-6 / CAS 13463-67-7: Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Dispose of as hazardous waste.  
Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

160504\* gases in pressure containers (including halons) containing dangerous substances

#### Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950





## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 15 / 19

### 14.2 UN proper shipping name

Transport by land according to ADR/RID	Aerosols
- Classification Code	5F
- Label	
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
Inland navigation (ADN)	Aerosols
- Classification Code	5F
- Label	
Marine transport in accordance with IMDG	Aerosols
- EMS	F-D, S-U
- Label	
- IMDG LQ	1 I
Air transport in accordance with IATA	Aerosols, flammable
- Label	

### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID	2
Inland navigation (ADN)	2
Marine transport in accordance with IMDG	2.1
Air transport in accordance with IATA	2.1

### 14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 16 / 19

### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

## SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
<b>- Observe employment restrictions for people</b>	Observe employment restrictions for young people. Annex XVII of the REACH Regulation, restriction 3a), 3b), 40. SEVESO III ( Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008: P3a FLAMMABLE AEROSOLS
<b>- VOC (2010/75/CE)</b>	79,66%; 600 g/l

### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.



**Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 17 / 19

**SECTION 16: Other information**

**16.1 Hazard statements (SECTION 3)**

EUH071 Corrosive to the respiratory tract.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H318 Causes serious eye damage.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H335 May cause respiratory irritation.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H226 Flammable liquid and vapour.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
H336 May cause drowsiness or dizziness.  
H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.

## Perfect-Fill, Dickschicht Füller – grau Article number PFL1045

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 18 / 19

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

#### Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229  
Pressurised container: May burst if heated. (Bridging principle "Aerosols")  
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)  
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)  
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

**Perfect-Fill, Dickschicht Füller – grau Article number PFL1045**

Date printed 09.03.2021, Revision 09.03.2021

Version 03. Supersedes version: 02

Page 19 / 19

**Modified position**

SECTION 3 been added: Titanium dioxide (<10µm)

SECTION 2 been added: EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

SECTION 9 been added: Titanium dioxide: ≤10µm

SECTION 11 been added: Calculation method

SECTION 11 been added: May be fatal if swallowed and enters airways.

SECTION 11 deleted: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 been added: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

SECTION 11 deleted: Based on the available information, the classification criteria are not fulfilled.

SECTION 12 been added: The methods for determining the biological degradability are not applicable to inorganic substances.

SECTION 12 deleted:

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