Safety Data Sheet

according to Regulation (EC) No 1907/2006

2035 TUNSEAL Primer Stick K12035003D
Revision date: 05.10.2018 Product code: 1400435 Page 1 of 11

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

1.1. Product identifier
2035 TUNSEAL Primer Stick K12035003D

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Adhesion promoter

1.3. Details of the supplier of the safety data sheet
Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Telex: +49 (0) 8171/1600 - 40
Fax: +49 (0) 8171/1600 - 40
e-mail: sdb@tunap.com
Internet: www.tunap.com

1.4. Emergency telephone number:
+49 (0) 30 30 686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
- Flammable liquid: Flam. Liq. 2
- Serious eye damage/eye irritation: Eye Irrit. 2
- Respiratory or skin sensitisation: Resp. Sens. 1
- Respiratory or skin sensitisation: Skin Sens. 1
- Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
- Highly flammable liquid and vapour.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause drowsiness or dizziness.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
- butanone; ethyl methyl ketone
- HMDI-Oligomere
- Disocyanate, isomers and homologues

Signal word: Danger

Pictograms:

Hazard statements
- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.
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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of Water and soap..
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
<td>50 - &lt;= 100 %</td>
<td>201-159-0</td>
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<td>Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066</td>
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<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>5 - &lt; 10 %</td>
<td>203-603-9</td>
<td>607-195-00-7</td>
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<td>Flam. Liq. 3; H226</td>
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<tr>
<td>28182-81-2</td>
<td>HMDI-Oligomere</td>
<td>5 - &lt; 10 %</td>
<td>500-060-2</td>
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<td></td>
<td>Acute Tox. 4, Skin Sens. 1, STOT SE 3; H332 H317 H335</td>
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<tr>
<td>123-86-4</td>
<td>n-butyl acetate</td>
<td>1 - &lt; 3 %</td>
<td>204-658-1</td>
<td>607-025-00-1</td>
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<td>Flam. Liq. 3, STOT SE 3; H226 H336 EUH066</td>
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<td>1330-20-7</td>
<td>xylene</td>
<td>1 - &lt; 3 %</td>
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<td>601-022-00-9</td>
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<td>9016-87-9</td>
<td>Diisocyanate, isomers and homologues</td>
<td>0.1 - &lt; 1 %</td>
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<td></td>
<td></td>
<td>Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H351 H332 H315 H319 H334 H317 H335</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation
Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.
6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking.

Further information on handling
Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed. Observe legal regulations and provisions.

Hints on joint storage
Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions
Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)

No information available.

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>
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<td>50</td>
<td>274</td>
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<td>TWA (8 h)</td>
<td>WEL</td>
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<td>548</td>
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<td>600</td>
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<td>200</td>
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<td>1330-20-7</td>
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<td>220</td>
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<td>100</td>
<td>441</td>
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Biological Monitoring Guidance Values (EH40)

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<th>Substance</th>
<th>Parameter</th>
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<td>Butan-2-one</td>
<td>butan-2-one</td>
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<td>urine</td>
<td>Post shift</td>
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<tr>
<td>1330-20-7</td>
<td>Xylene, o-, m-, p- or mixed isomers</td>
<td>methyl hippuric acid (creatinine)</td>
<td>650 mmol/mol</td>
<td>urine</td>
<td>Post shift</td>
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</table>

Additional advice on limit values
a. no restriction
b. End of exposure or end of shift
c. at long term exposure: after several previous shifts
d. before next shift

Blood (B)
Urine (U)

8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures
3

Eye/face protection
Suitable eye protection: Tightly sealed safety glasses.
DIN EN 166

Hand protection
Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min
Thickness of the glove material 0.45 mm
DIN EN 374

Skin protection
Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
When exceeding the relevant workplace exposure limits, note the following:
Suitable respiratory protective equipment: Combination filter device (DIN EN 141). Filtering device with filter or ventilator filtering device of type: A
Observe the wear time limits as specified by the manufacturer.
Observe legal regulations and provisions.

Environmental exposure controls
Observe legal regulations and provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: black
Odour: characteristic

Test method
pH-Value (at 20 °C): DIN 19268

Changes in the physical state
Initial boiling point and boiling range: 80 °C
Flash point: -4 °C ISO 3679
Lower explosion limits: 1.2 vol. %
Upper explosion limits: 11.5 vol. %
Density (at 20 °C): 0.949 g/cm³ DIN 51757
Viscosity / dynamic: DIN 53019-1
Viscosity / kinematic:
(at 40 °C) DIN EN ISO 3104
Flow time:
(at 20 °C) DIN EN ISO 2431

SECTION 10: Stability and reactivity

10.1. Reactivity
Flammable

10.2. Chemical stability
The product is stable under normal conditions.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Keep away from heat. Ignition hazard.

10.5. Incompatible materials
Oxidizing agents. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products
Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO₂, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information
Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution
There are no data available on the mixture itself.

Acute toxicity
Based on available data, the classification criteria are not met.
# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**2035 TUNSEAL Primer Stick K12035003D**

Revision date: 05.10.2018  
Product code: 1400435  
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<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
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<td>78-93-3</td>
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<td>oral</td>
<td>LD50</td>
<td>3300</td>
<td>Rat</td>
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<td>inhalation (4 h) vapour</td>
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<td>LD50</td>
<td>1700</td>
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<td>mg/kg</td>
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<td>Disocyanate, isomers and homologues</td>
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<td>49000</td>
<td>Rat</td>
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<td>ATE</td>
<td>1.5 mg/l</td>
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</table>

**Irritation and corrosivity**

Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Irritating to eyes.

**Sensitising effects**

Contains isocyanates. May produce an allergic reaction. May cause an allergic skin reaction. (HMDI-Oligomere; Disocyanate, isomers and homologues)
May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Disocyanate, isomers and homologues)
May cause sensitization by inhalation and skin contact.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.
No indications of human carcinogenicity exist.
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.
STOT-single exposure
May cause drowsiness or dizziness. (butanone; ethyl methyl ketone)

STOT-repeated exposure
Repeated exposure may cause skin dryness or cracking.
Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Aspiration hazard
Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal
No information available.

SECTION 12: Ecological information

12.1. Toxicity
There are no data available on the mixture itself.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
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<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l</td>
<td>3220</td>
<td>96 h</td>
<td>Pimephales promelas</td>
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<td>Acute algae toxicity</td>
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<td>96 h</td>
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<td>Acute crustacea toxicity</td>
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</tbody>
</table>

12.2. Persistence and degradability
There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential
There are no data available on the mixture itself.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>0,43</td>
</tr>
<tr>
<td>123-86-4</td>
<td>n-butyl acetate</td>
<td>1,78</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
No information available.

Further information
Do not allow to enter into surface water or drains.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3
Classification code: F1
Special Provisions: 274 601 640C
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3
Classification code: F1
Special Provisions: 274 601 640C
Limited quantity: 1 L
Excepted quantity: E2
根据《EC》第1907/2006号条例

2035 TUNSEAL Primer Stick K12035003D

产品代码：1400435

第14节：运输信息

**14.1. UN number:** UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone)

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

<table>
<thead>
<tr>
<th>指标</th>
<th>值</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Provisions:</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>1 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E2</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-E, S-E</td>
</tr>
</tbody>
</table>

**14.5. Environmental hazards**

无环境危害

**SECTION 15: Regulatory information**

15.1. 安全、健康和环境法规/立法，具体适用于物质或混合物

**EU regulatory information**

<table>
<thead>
<tr>
<th>条约/法规</th>
<th>适用情况</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH, annex XVII:</td>
<td>Entry 3: 2-methoxy-1-methylethyl acetate</td>
</tr>
<tr>
<td>2010/75/EU (VOC):</td>
<td>No information available.</td>
</tr>
<tr>
<td>2004/42/EC (VOC):</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

**Additional information**

安全数据表根据《EC》第1907/2006号（REACH）

**National regulatory information**

水污染性等级 (D): 3 - 高度水污染性

**SECTION 16: Other information**

**Abbreviations and acronyms**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (欧洲道路危险货物运输协议)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (国际铁路危险货物运输规则)
- IATA: International Air Transport Association
- IMDG: International Maritime Code for Dangerous Goods
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
Relevant H and EUH statements (number and full text)

H225  Highly flammable liquid and vapour.
H226  Flammable liquid and vapour.
H312  Harmful in contact with skin.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H332  Harmful if inhaled.
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335  May cause respiratory irritation.
H336  May cause drowsiness or dizziness.
H351  Suspected of causing cancer.
EUH066  Repeated exposure may cause skin dryness or cracking.
EUH204  Contains isocyanates. May produce an allergic reaction.

Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:
Calculation method.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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