

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.07.2018

Version number 3

Revision: 18.07.2018

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

- **1.1 Product identifier**
- **Trade name: Kleber SKL 71**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Adhesives
Bonding agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Spengler Fluorkunststoffe GmbH & Co. KG
Buchenring 20
D-42281 Wuppertal
Tel.: +49 202 8702790
Fax: +49 202 8702786
Website: www.sp-ptfe.de
e-Mail: info@sp-ptfe.de
- **Informing department:**
Phone: +49 202 8702790
Fax.: +49 202 8702786
- **1.4 Emergency telephone number:** Phone +49 202 8702790

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.
Carc. 1B H350 May cause cancer.
Repr. 2 H361d Suspected of damaging the unborn child.
STOT RE 2 H373 May cause damage to the central nervous system, the kidneys, the liver and the skin through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS05 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

toluene
 phenol
 formaldehyde

Hazard statements

H225 Highly flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H341 Suspected of causing genetic defects.
 H350 May cause cancer.
 H361d Suspected of damaging the unborn child.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to the central nervous system, the kidneys, the liver and the skin through prolonged or repeated exposure.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture of the substances listed below including additives not requiring identification.

• **Dangerous components:**

| | | |
|---|--|--------------|
| CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-X | toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | 25 - 50% |
| CAS: 108-95-2 EINECS: 203-632-7 Reg.nr.: 01-2119471329-32-X | phenol ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; ⚠ Skin Corr. 1B, H314 | ≥ 3 - < 10% |
| CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-X | methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 | ≥ 2.5 - < 3% |
| CAS: 50-00-0 EINECS: 200-001-8 Reg.nr.: 01-2119488953-20-X | formaldehyde ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; Carc. 1B, H350; ⚠ Skin Corr. 1B, H314; ⚠ Skin Sens. 1, H317 | ≥ 1 - < 2.5% |

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

SECTION 4: First aid measures

• **4.1 Description of first aid measures**

• **General information** Instantly remove any clothing contaminated by the product.

• **After inhalation**

Provide fresh air. Keep victims quiet and warm.

Call a doctor immediately.

• **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

In case of skin irritations or sensitizing effects, consult doctor.

• **After eye contact**

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Use eye protection.

Remove contact lenses if possible.

Call a doctor immediately.

• **After swallowing**

Rinse out mouth and then drink plenty of water.

Instantly call for doctor.

Do not induce vomiting.

A person vomiting while lying on their back should be turned onto their side.

• **4.2 Most important symptoms and effects, both acute and delayed**

Allergic reactions

Corrosivity

drowsiness

Dazed

• **4.3 Indication of any immediate medical attention and special treatment needed**

A symptomatic therapy is to be induced.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
Can be released in case of fire:
Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Keep away from sources of ignition and care for sufficient ventilation due to the content of organic solvents.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Send for recovery or disposal in suitable containers.
Complete cleaning with water.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
Don't eat, drink or smoke while working.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store container tightly sealed at a cool place.
Keep container tightly closed and store upright to prevent any spill of product.

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- **Information about storage in one common storage facility:**
Keep away from food, drink and animal feeding stuffs.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

108-88-3 toluene

| | |
|------------------------|--|
| WEL (Great Britain) | Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk |
| IOELV (European Union) | Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Skin |

108-95-2 phenol

| | |
|------------------------|--|
| WEL (Great Britain) | Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 7.8 mg/m ³ , 2 ppm Sk |
| IOELV (European Union) | Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 8 mg/m ³ , 2 ppm Skin |

67-56-1 methanol

| | |
|------------------------|---|
| WEL (Great Britain) | Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk |
| IOELV (European Union) | Long-term value: 260 mg/m ³ , 200 ppm Skin |

50-00-0 formaldehyde

| | |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 2.5 mg/m ³ , 2 ppm Long-term value: 2.5 mg/m ³ , 2 ppm |
|---------------------|---|

· DNELs

108-88-3 toluene

| | | |
|------------|---------------------------------------|--------------------------------|
| Oral | DNEL (consumer, long-term, systemic) | 8.13 mg/kg bw/day (human) |
| Dermal | DNEL (worker, long-term, systemic) | 384 mg/kg bw/day (human) |
| | DNEL (consumer, long-term, systemic) | 226 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, short-term, systemic) | 384 mg/m ³ (human) |
| | DNEL (worker, long-term, systemic) | 192 mg/m ³ (human) |
| | DNEL (consumer, short-term, systemic) | 226 mg/m ³ (human) |
| | DNEL (consumer, long-term, systemic) | 56.5 mg/m ³ (human) |
| | DNEL (worker, short-term, local) | 384 mg/m ³ (human) |
| | DNEL (consumer, short-term, local) | 226 mg/m ³ (human) |
| | DNEL (consumer, long-term, local) | 56.5 mg/m ³ (human) |

108-95-2 phenol

| | | |
|------|--------------------------------------|--------------------------|
| Oral | DNEL (consumer, long-term, systemic) | 0.4 mg/kg bw/day (human) |
|------|--------------------------------------|--------------------------|

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| | | |
|------------|--------------------------------------|--------------------------------|
| Dermal | DNEL (worker, long-term, systemic) | 1.23 mg/kg bw/day (human) |
| | DNEL (consumer, long-term, systemic) | 0.4 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, long-term, systemic) | 8 mg/m ³ (human) |
| | DNEL (consumer, long-term, systemic) | 1.32 mg/m ³ (human) |
| | DNEL (worker, short-term, local) | 16 mg/m ³ (human) |

· PNECs**108-88-3 toluene**

| | |
|-----------------------------------|---------------------------|
| PNEC aqua (freshwater) | 0.68 mg/L (.) |
| PNEC aqua (marine water) | 0.68 mg/L (.) |
| PNEC STP | 13.61 mg/L (.) |
| PNEC soil | 2.89 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 16.39 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 16.39 mg/kg sedim. dw (.) |
| PNEC aqua (intermittent releases) | 0.68 mg/L (.) |

108-95-2 phenol

| | |
|-----------------------------------|-----------------------------|
| PNEC aqua (freshwater) | 0.0077 mg/L (.) |
| PNEC aqua (marine water) | 0.00077 mg/L (.) |
| PNEC STP | 0.136 mg/L (.) |
| PNEC soil | 2.1 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 0.0915 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 0.00915 mg/kg sedim. dw (.) |
| PNEC aqua (intermittent releases) | 0.031 mg/L (.) |

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls**· Personal protective equipment****· General protective and hygienic measures**

- Avoid contact with the eyes and skin.
- Keep away from foodstuffs, beverages and food.
- Take off all contaminated clothing immediately.
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke while working.

· Breathing equipment:

- Provide plenty of fresh air.
- Use breathing protection in case of insufficient ventilation.
- Filter ABEK.

· Protection of hands:

Protective gloves.

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.

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- **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.
- **For the permanent contact gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
Time for penetration: > 480 min.
- **As protection from splashes gloves made of the following materials are suitable:**
Nitrile rubber, NBR
- **Eye protection:**



Tightly sealed safety glasses.

- **Body protection:** Impervious protective clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

| | |
|----------------|----------|
| Form: | Fluid |
| Colour: | Brown |
| Odour: | Aromatic |
- **Change in condition**
Initial boiling point and boiling range: > 125 °C
- **Flash point:** > 1 °C (ISO 2719)
- **Decomposition temperature:** > 200 °C
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Critical values for explosion:**

| | |
|---------------|------------|
| Lower: | 1.1 Vol % |
| Upper: | 13.5 Vol % |
- **Density at 25 °C** 1 g/cm³
- **Solubility in / Miscibility with Water:** Insoluble
- **Viscosity:**
dynamic at 25 °C: 1500 - 3000 mPas
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Thermal decomposition > 200°C.
- **10.3 Possibility of hazardous reactions** Forms explosive gases / fumes
- **10.4 Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **10.5 Incompatible materials:** Acids, bases, oxidizers.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide

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Poisonous gases/vapours

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

108-88-3 toluene

| | | |
|------------|------|-----------------------------------|
| Oral | LD50 | 5,580 mg/kg (rat) (EU Method B.1) |
| Dermal | LD50 | 12,267 mg/kg (rabbit) |
| Inhalative | LC50 | > 20 mg/l/4h (rat) (OECD 403) |

108-95-2 phenol

| | | |
|------------|------|--------------------------------|
| Oral | LD50 | 530 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | 660 mg/kg (rat) (OECD 402) |
| Inhalative | LC50 | > 900 mg/l/8h (rat) (OECD 403) |

50-00-0 formaldehyde

| | | |
|------|------|----------------------------|
| Oral | LD50 | 800 mg/kg (rat) (OECD 401) |
|------|------|----------------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

- **Repeated dose toxicity**

108-88-3 toluene

| | | |
|------|-------------|------------------------------------|
| Oral | NOAEL (90d) | 625 mg/kg bw/day (mouse) (EU B.26) |
|------|-------------|------------------------------------|

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Muta. 2, Carc. 1B, Repr. 2
- **Germ cell mutagenicity**
Suspected of causing genetic defects.
- **Carcinogenicity**
May cause cancer.
- **Reproductive toxicity**
Suspected of damaging the unborn child.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to the central nervous system, the kidneys, the liver and the skin through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

108-88-3 toluene

| | |
|----------------|--|
| EC50 (static) | 84 mg/l/24h (Bacteria) |
| EC50 (static) | 3.78 mg/l/48h (Ceriodaphnia dubia) (US EPA 600/4-91-003) |
| LC50 (dynamic) | 5.5 mg/l/96h (Oncorhynchus mykiss) |

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108-95-2 phenol

| | |
|----------------|--|
| EC50 (static) | 3.1 mg/l/48h (Ceriodaphnia dubia) (US EPA) |
| EC50 (static) | 61.1 mg/l/96h (Pseudokirchneriella subcapitata) (US EPA) |
| LC50 (dynamic) | 8.9 mg/l/96h (Oncorhynchus mykiss) (US EPA) |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**

- **Behaviour in sewage processing plants:**

108-88-3 toluene

| | |
|---------------|--------------------------------------|
| EC50 (static) | 134 mg/l/3h (Chlamydomonas angulosa) |
|---------------|--------------------------------------|

- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
After prior treatment product has to be disposed of in an incinerator for hazardous waste under adherence to the regulations pertaining to the disposal of particularly hazardous waste.
The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

| | |
|-----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products) |
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |

- **Uncleaned packagings:**
- **Recommendation:**
Non contaminated packagings can be used for recycling.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1866
- **14.2 UN proper shipping name**
- **ADR** 1866 RESIN SOLUTION, special provision 640D
- **IMDG, IATA** RESIN SOLUTION

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 3 (F1) Flammable liquids.
 · **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids.
 · **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Warning: Flammable liquids.
 · **Kemler Number:** 33
 · **EMS Number:** F-E, S-E
 · **Stowage Category** B

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5L
 · **Excepted quantities (EQ)** Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· **Transport category**

2

· **Tunnel restriction code**

D/E

· **UN "Model Regulation":**

UN 1866 RESIN SOLUTION, SPECIAL PROVISION 640D, 3, II

SECTION 15: Regulatory information

· **15.1 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.

· **Seveso category** P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 48, 69

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- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.
 Employment restrictions concerning pregnant and lactating women must be observed.
 Employment restrictions concerning women of child-bearing age must be observed.

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.
 H301 Toxic if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H331 Toxic if inhaled.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.
 H350 May cause cancer.
 H361d Suspected of damaging the unborn child.
 H370 Causes damage to organs.
 H373 May cause damage to the central nervous system, the kidneys, the liver and the skin through prolonged or repeated exposure.

- **Recommended restriction of use**

Respect restrictions of according to annex XVII of regulation no. 1907/2006 no. 28, 29 resp. 30 for substances which are carcinogenic, mutagenic or toxic to reproduction:
 Shall not be placed on the market, or used as substances, as constituents of other substances, or in mixtures, for supply to the general public.

Suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.

Respect restrictions according to annex XVII of regulation 1907/2006 no. 48 for toluene:
 Shall not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1 % by mass in adhesives and spray paints intended for sale to the general public.

- **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
 phone: (+49) 511 42079 - 0, reach@dekra.com.
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- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 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

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Safety data sheet
according to 1907/2006/EC, Article 31

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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)
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

• *** Data compared to the previous version altered.**

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