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

1.1 Product identifier
- Trade name: Rittal Lackstift

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  RITTAL GmbH & Co.KG
  Auf dem Stützelberg
  D-35745 Herborn
  Phone: +49 2772 505 0
  e-mail: info@rittal.de

1.4 Emergency telephone number:
- Informationszentrale gegen Vergiftungen Bonn
  Tel.: 0228/19240 (emergency)
  0228/287-3-3480 (office)
  Fax: 0228/287-3-3278

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - GHS02 flame
    Flammable liquid and vapour. H226
  - GHS08 health hazard
    May cause damage to organs through prolonged or repeated exposure. H373
  - GHS09 environment
    Toxic to aquatic life with long lasting effects. H411
  - GHS07
    Causes skin irritation. H315
    Causes serious eye irritation. H319
    May cause an allergic skin reaction. H317
    May cause respiratory irritation. May cause drowsiness or dizziness. H335-H336

(Contd. on page 2)
Trade name: Rittal Lackstift

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, GHS07, GHS08, GHS09
- Signal word Warning

- Hazard-determining components of labelling:
  Hydrocarbons, C9, aromatics
  Xylene
  2-Methoxy-1-methylethyl acetate
  Reaction mass of pentamethyl-piperidyl sebacate

- Hazard statements
  H226 Flammable liquid and vapour.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H317 May cause an allergic skin reaction.
  H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
  H373 May cause damage to organs through prolonged or repeated exposure.
  H411 Toxic to aquatic life with long lasting effects.

- 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.
  P273 Avoid release to the environment.
  P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  P403+P235 Store in a well-ventilated place. Keep cool.
  P405 Store locked up.

- Labelling of packages where the contents do not exceed 125 ml
  - Hazard pictograms GHS02, GHS07, GHS08, GHS09
  - Signal word Warning

  - Hazard-determining components of labelling:
    Hydrocarbons, C9, aromatics
    Xylene
    2-Methoxy-1-methylethyl acetate
    Reaction mass of pentamethyl-piperidyl sebacate

  - Hazard statements
    H317 May cause an allergic skin reaction.

  - Precautionary statements
    P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
    P233 Keep container tightly closed.
    P260 Do not breathe dust/fume/gas/mist/vapours/spray.
    P273 Avoid release to the environment.
    P302+P352 IF ON SKIN: Wash with plenty of water.
    P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3 Other hazards

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
Trade name: Rittal Lackstift

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS</th>
<th>EC number</th>
<th>Latest</th>
<th>Total</th>
<th>EC number</th>
<th>Categories</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-95-6</td>
<td>918-668-5</td>
<td>Reg. nr.: 01-2119455851-35</td>
<td>Hydrocarbons, C9, aromatics</td>
<td>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336</td>
<td>25-50%</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>Reg. nr.: 01-2119488216-32</td>
<td>Xylene</td>
<td>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td>≥10-&lt;20%</td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td>202-849-4</td>
<td>Reg. nr.: 01-2119489370-35</td>
<td>ethylbenzene</td>
<td>Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412</td>
<td>2.5-&lt;10%</td>
<td></td>
</tr>
<tr>
<td>108-65-6</td>
<td>203-603-9</td>
<td>Reg. nr.: 01-2119475791-29</td>
<td>2-Methoxy-1-methylethyl acetate</td>
<td>Flam. Liq. 3, H226; STOT SE 3, H336</td>
<td>2.5-&lt;10%</td>
<td></td>
</tr>
<tr>
<td>112-07-2</td>
<td>203-933-3</td>
<td>Reg. nr.: 01-2119475112-47</td>
<td>2-Butoxyethyl acetate</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332</td>
<td>1-&lt;2.5%</td>
<td></td>
</tr>
<tr>
<td>915-687-0</td>
<td>203-91304-40</td>
<td>EC number</td>
<td>Reaction mass of pentamethyldipropyl silicate</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317</td>
<td>≥0.25-&lt;1%</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>203-625-9</td>
<td>Reg. nr.: 01-2119471310-51</td>
<td>Toluene</td>
<td>Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td>&lt;1%</td>
<td></td>
</tr>
</tbody>
</table>

- **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:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **In case of unconsciousness place patient stably in side position for transportation.**
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.3 Indication of any immediate medical attention and special treatment needed**
- No further relevant information available.
SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents

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 disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3
- Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Common Name</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>441 mg/m³, 100 ppm</td>
<td>220 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL</td>
<td>Sk, BMGV</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>552 mg/m³, 125 ppm</td>
<td>441 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL</td>
<td>Sk</td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-Methoxy-1-methylethyl acetate</td>
<td>548 mg/m³, 100 ppm</td>
<td>274 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL</td>
<td>Sk</td>
</tr>
<tr>
<td>112-07-2</td>
<td>2-Butoxyethyl acetate</td>
<td>332 mg/m³, 50 ppm</td>
<td>133 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL</td>
<td>Sk</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>384 mg/m³, 100 ppm</td>
<td>191 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL</td>
<td>Sk</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Common Name</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>650 mmol/mol creatinine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sampling time: post shift</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parameter: methyl hippuric acid</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves (EN 374)
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

- **Breakthrough time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

  Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Fluid
    - **Colour:** According to product specification
    - **Odour:** Characteristic
    - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.
  - **Change in condition**
    - **Melting point/freezing point:** Undetermined.
    - **Initial boiling point and boiling range:** 124 °C
  - **Flash point:** 24 °C (DIN EN ISO 1523:2002)
  - **Flammability (solid, gas):** Not applicable.
  - **Ignition temperature:** 450 °C (DIN 51794)
  - **Decomposition temperature:** Not determined.
  - **Auto-Ignition temperature:** Product is not selfigniting.
  - **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - **Explosion limits:**
    - **Lower:** 0.7 Vol %
    - **Upper:** 7.5 Vol %
  - **Vapour pressure at 20 °C:** 6.7-8.2 hPa
  - **Density at 20 °C:** 1.089 g/cm³ (DIN EN ISO 2811-1)
  - **Relative density** Not determined.
  - **Vapour density** Not determined.
Trade name: Rittal Lackstift

- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity: Dynamic: Not determined.
  Kinematic at 20 °C: 160-180 s (DIN 53211/4)
- Solvent content: VOC (EC): 54.79 %
  Solids content (weight-%): 45.2 %
- 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:
  No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide

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 relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral</th>
<th>Dermal</th>
<th>Inhalative</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-95-6 Hydrocarbons, C9, aromatics</td>
<td>LD50</td>
<td>&gt;2,000 mg/kg (rat)</td>
<td>&gt;2,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>1330-20-7 Xylene</td>
<td>LD50</td>
<td>5,251 mg/kg (rat)</td>
<td>&gt;5,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>5,251 mg/kg (rat)</td>
<td>&gt;5,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>29 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- Primary irritant effect:
- Skin corrosion/irritation
  Causes skin irritation.
- Serious eye damage/irritation
  Causes serious eye irritation.
- Respiratory or skin sensitisation
  May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
· Reproductive toxicity Based on available data, the classification criteria are not met.
· STOT-single exposure
  May cause respiratory irritation. May cause drowsiness or dizziness.
· STOT-repeated exposure
  May cause damage to organs 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: No further relevant information available.
  · 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:
    · Remark: Toxic for fish
  · Additional ecological information:
    · General notes:
      Water hazard class 2 (German Regulation) : hazardous for water
      Do not allow product to reach ground water, water course or sewage system.
      Danger to drinking water if even small quantities leak into the ground.
      Also poisonous for fish and plankton in water bodies.
      Toxic for aquatic organisms
  · 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
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  · European waste catalogue
    08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
  · Uncleaned packaging:
    · Recommendation:
      Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN-Number
· ADR, IMDG, IATA
  UN1263
### 14.2 UN proper shipping name

- **ADR**: UN 1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (Solvent naphtha, bis-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate), MARINE POLLUTANT PAINT

- **IMDG**

- **IATA**

### 14.3 Transport hazard class(es)

- **ADR**
  - **Class**: 3 (F1) Flammable liquids.
  - **Label**: 3

- **IMDG**
  - **Class**: 3 Flammable liquids.
  - **Label**: 3

- **IATA**
  - **Class**: 3 Flammable liquids.
  - **Label**: 3

### 14.4 Packing group

- **ADR, IMDG, IATA**: III

### 14.5 Environmental hazards:

- **Product contains environmentally hazardous substances**: bis-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, Solvent naphtha

- **Marine pollutant**: Symbol (fish and tree)

- **Special marking (ADR)**: Symbol (fish and tree)

### 14.6 Special precautions for user

- **Warning**: Flammable liquids.

- **Danger code (Kemler)**: 30

- **EMS Number**: F-E,S-E

- **Stowage Category**: A

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

**Not applicable.**

### Transport/Additional information:

- **ADR**
  - **Transport category**: 3
Trade name: Rittal Lackstift

| · Tunnel restriction code | D/E |
| · Remarks: | \( \leq 5 \) l: 2.2.3.1.5 ADR |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Remarks: | \( \leq 5 \) l: 2.2.3.1.5 IMDG |
| · UN "Model Regulation": | UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS |

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
    E2 Hazardous to the Aquatic Environment
    F5c FLAMMABLE LIQUIDS
  · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
  · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
  · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
  · National regulations:
    | Class | Share in % |
    |-------|------------|
    | NK    | 50-100     |

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

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.
  H226 Flammable liquid and vapour.
  H302 Harmful if swallowed.
  H304 May be fatal if swallowed and enters airways.
  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.
  H335 May cause respiratory irritation.
  H336 May cause drowsiness or dizziness.
  H361d Suspected of damaging the unborn child.
  H373 May cause damage to organs through prolonged or repeated exposure.
  H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
  H411 Toxic to aquatic life with long lasting effects.
  H412 Harmful to aquatic life with long lasting effects.
Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:
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
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)
VOC: Volatile Organic Compounds (USA, EU)
LD50: Lethal concentration, 50 percent
LC50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 2: Reproductive toxicity – Category 2
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
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.