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

1.1 Product identifier

Trade name: Kramp Kunstharzlack div. Farbtöne

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 Lacquer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Kramp
Breukelaanweg 33
7051 DW Varsseveld
Tel: +31-(0)315 25 44 44
Fax: +31-(0)315 24 37 23
E-mail: verkoop.nl@kramp.com

1.4 Emergency telephone number: +49(0)700 24112112 (MIP)

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10-52/53-66-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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

Signal word Warning

Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated heavy, benzene content < 0,1%
Naphtha (petroleum), hydrosulfurized heavy xylene
Solvent naphtha (petroleum), light arom.

Hazard statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

(Contd. on page 2)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2014
Version number 11
Revision: 26.06.2014

Trade name: Kramp Kunstharzlack div. Farbtöne

(Contd. of page 1)

3.2 Chemical characterization: Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Reg.nr.:</th>
<th>Description</th>
<th>Risk phrases</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9</td>
<td>265-150-3</td>
<td></td>
<td>Naphtha (petroleum), hydrotreated heavy, benzene content &lt; 0.1%</td>
<td></td>
<td>10-&lt;15%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R65</td>
<td>Flam. Liq. 3, STOT SE 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>64742-82-1</td>
<td>265-185-4</td>
<td></td>
<td>Naphtha (petroleum), hydrodesulfurized heavy</td>
<td></td>
<td>10-&lt;12.5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R65</td>
<td>Flam. Liq. 3, STOT SE 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H311; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td></td>
<td>xyylene</td>
<td></td>
<td>3-&lt;10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R20/21; Xi R38</td>
<td>Flam. Liq. 3, 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; Skin Sens. 1, H317</td>
<td></td>
</tr>
<tr>
<td>108-65-6</td>
<td>203-603-9</td>
<td></td>
<td>2-methoxy-1-methylethyl acetate</td>
<td></td>
<td>3-&lt;10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R65</td>
<td>Flam. Liq. 3, STOT SE 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H311; STOT SE 3, H335-H336</td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>918-668-5</td>
<td></td>
<td>Solvent naphtha (petroleum), light arom.</td>
<td></td>
<td>1-&lt;2.5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R65</td>
<td>Flam. Liq. 3, STOT SE 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H311; STOT SE 3, H335-H336</td>
<td></td>
</tr>
<tr>
<td>136-52-7</td>
<td>205-250-6</td>
<td></td>
<td>cobalt bis(2-ethylhexanoate)</td>
<td></td>
<td>0.3-&lt;1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xi R43; N R50/53</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317</td>
<td></td>
</tr>
<tr>
<td>96-29-7</td>
<td>202-496-6</td>
<td></td>
<td>2-butanone oxime</td>
<td></td>
<td>0.1-&lt;0.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn R21-40; Xi R41; Xi R43</td>
<td>Carc. 2, H551; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317</td>
<td></td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed risk phrases refer to section 16.
4 First aid measures

- 4.1 Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
  No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

5 Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.
- 5.3 Advice for firefighters
  - Protective equipment: No special measures required.

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).
  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.

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
  - Storage:
    - 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
- 7.3 Specific end use(s) No further relevant information available.
### 8 Exposure controls/personal protection

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

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>WEL ()</th>
<th>Sk, BMGV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>Short-term: 441 mg/m³, 100 ppm</td>
<td>Long-term: 220 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>Short-term: 548 mg/m³, 100 ppm</td>
<td>Long-term: 274 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>136-52-7 cobalt bis(2-ethylhexanoate)</td>
<td>Long-term: 0.1 mg/m³ as Co; Carc</td>
<td></td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>BMGV ()</th>
<th>Medium</th>
<th>Sampling time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>650 mmol/mol creatinine</td>
<td>urine</td>
<td>post shift</td>
<td>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:** Wash hands before breaks and at the end of work.
  - **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:

- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- 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.

#### Penetration time of glove material:

- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:

- Tightly sealed goggles
# 9 Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

### General Information

- **Appearance:** Fluid
- **Form:** Fluid
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

### Change in condition
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 137 °C

### Flash point:
- Flash point: 29 °C (DIN 53213)

### Flammability (solid, gaseous):
- Flammability (solid, gaseous): Not applicable.

### Ignition temperature:
- Ignition temperature: 200 °C (DIN 51794)

### Decomposition temperature:
- Decomposition temperature: Not determined.

### Self-igniting:
- Product is not selfigniting.

### Danger of explosion:
- Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### Explosion limits:
- **Lower:** 0.6 Vol %
- **Upper:** 8.0 Vol %

### Vapour pressure at 20 °C:
- Vapour pressure at 20 °C: 6.7 hPa

### Density at 20 °C:
- Density at 20 °C: 1.145 g/cm³ (DIN 53217)

### Relative density:
- Relative density: Not determined.

### Vapour density:
- Vapour density: Not determined.

### Evaporation rate:
- Evaporation rate: Not determined.

### Solubility in / Miscibility with water:
- Solubility in / Miscibility with water: Not miscible or difficult to mix.

### Partition coefficient (n-octanol/water):
- Partition coefficient (n-octanol/water): Not determined.

### Viscosity:
- **Dynamic:** Not determined.
- Kinematic at 20 °C: 125 s (DIN 53211/4)

### Solvent content:
- Organic solvents: 39.9 %
- VOC (EC): 464.6 g/l

### Solids content (weight-%):
- Solids content (weight-%): 60.1 %

## 9.2 Other information
- No further relevant information available.

---

# 10 Stability and reactivity

## 10.1 Reactivity

### 10.2 Chemical stability

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products:
- Carbon monoxide

---

(Contd. on page 6)
11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

- LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9 Naphtha (petroleum), hydrotreated heavy, benzene content &lt; 0,1%</td>
<td>&gt; 5000</td>
<td>&gt; 5000</td>
</tr>
<tr>
<td>64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy</td>
<td>&gt; 5000</td>
<td>3400</td>
</tr>
<tr>
<td>64742-95-6 Solvent naphtha (petroleum), light arom.</td>
<td>&gt; 2000</td>
<td>&gt; 2000</td>
</tr>
</tbody>
</table>

Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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: Harmful to 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.
  - Harmful to 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.

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 dangerous substances

Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
14 Transport information

14.1 UN-Number
- ADR, IMDG, IATA UN1263

14.2 UN proper shipping name
- ADR 1263 PAINT, special provision 640E
- IMDG, IATA PAINT

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 III

14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Warning: Flammable liquids.
- Danger code (Kemler): 30
- EMS Number: F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

Transport/Additional information:
- ADR
  - Transport category 3
  - Tunnel restriction code D/E
  - Remarks: ≤ 450 l: -

- IMDG
  - Remarks: ≤ 30 l: -

- UN "Model Regulation": UN1263, PAINT, special provision 640E, 3, III

15 Regulatory information

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

National regulations:

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>0.1-&lt;0.3</td>
</tr>
<tr>
<td>NK</td>
<td>25-50</td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
38.1.2

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

H226 Flammable liquid and vapour.
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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
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 Very toxic to aquatic life with long lasting effects.
H413 Toxic to aquatic life with long lasting effects.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R21 Harmful in contact with skin.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful; may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

- 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 Organization
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 Harmonized System of Classification and Labelling of Chemicals
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.