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

1.1 Product identifier

Trade name: AF 33
Registration number (REACH): not relevant (mixture)

Other means of identification

Item code: 3341/GL / 3342/GL / 3345/GL

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

Relevant identified uses: paint
Industrial use

1.3 Details of the supplier of the safety data sheet

DISTRISERV
43 Rue Michel Gachet
13007 Marseille
France

Telephone: +33 (0) 9 79 58 61 00
e-mail: contact@seahawkpaints.eu

1.4 Emergency telephone number

Emergency information service

Austria: +43 1 406 43 43;
Belgium: +32 2 9154 409;
Czech republic tel: +420 224 919 293, +420 224 915 402;
Denmark: 82 12 12 12;
Estonia: tel nationally 16662, from abroad (+372) 626 93 90;
Finland: (09) 471 977 (direct) or (09) 4711 (exchange);
France: +33 (0) 1 45 42 59 59 (7/7 24/24);
Germany: 030/19240;
Hungary: +36 1 476 6464;
Ireland: 01 8092566 or 01 8379964;
Italie: 0659943733;
Lithuania: 370 5 236 20 52 ou 370 687 53 378;
Malta: 2545 0000;
Netherlands: 030-2748888;
New Zealand: 0800 764 766 or 0800 611 116;
Norway: + 47 810 20 050;
Portugal: 808 250 143;
Romania: 021.318.36.06;
Slovakia: 421 2 5477 4166;
Spain: + 34 91 562 04 20;
Sweden: 112 ou 08-331231.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>GHS chapter</th>
<th>Hazard class and category</th>
<th>Hazard statement code(s)</th>
</tr>
</thead>
</table>

United Kingdom
item 000000041 SDS-03
Classification according to Directive 1999/45/EC (DPD)
Indication(s) of danger - Symbol codes - R-phrases

flammable: R10
harmful: Xn; R22-65
sensitising: Xi; R43
dangerous for the environment: N; R50-53

Remarks
For full text of R-phrases: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word: Danger

Pictograms
GHS02, GHS07, GHS08, GHS09

Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - response

P301+P310  IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P302+P352  IF ON SKIN: Wash with plenty of water.
P303+P361+P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340  IF INHALED: remove person to fresh air and keep at rest in a position comfortable for breathing.
P312  Call a POISON CENTER/doctor if you feel unwell.
P331  Do NOT induce vomiting.
P333+P313  If skin irritation or rash occurs: get medical advice/attention.
P362  Take off contaminated clothing.
P363  Wash contaminated clothing before reuse.
P370+P378  In case of fire: Use foam to extinguish - never use water.
P391  Collect spillage.

Precautionary statements - storage

P403+P233  Store in a well-ventilated place. Keep container tightly closed.
P403+P235  Store in a well-ventilated place. Keep cool.

Precautionary statements - disposal

P501  Dispose of contents/container to industrial combustion plant.

Hazardous ingredients for labelling: Rosin, Solvent naphtha (petroleum), light arom.

2.3 Other hazards
Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances
not relevant (mixture)

3.2 Mixtures

Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>wt%</th>
<th>Classification acc. to 1272/2008/EC</th>
<th>Pictograms</th>
<th>Classification acc. to 67/548/EEC</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicopper oxide</td>
<td>CAS No 1317-39-1</td>
<td>≥ 25 - &lt; 50</td>
<td>Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410</td>
<td><img src="image1" alt="harmful" /></td>
<td>Xn; R22 dangerous for the environment; N; R50-53</td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td></td>
<td>EC No 215-270-7</td>
<td></td>
<td></td>
<td><img src="image1" alt="harmful" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td>Solvent naphtha</td>
<td>CAS No 64742-95-6</td>
<td>≥ 10 - &lt; 25</td>
<td>Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 STOT SE 3 / H338 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411</td>
<td><img src="image3" alt="flammable" /></td>
<td>R10 harmful; Xn; R65 irritant; Xi; R38 R67 dangerous for the environment; N; R51-53</td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td>(petroleum), light</td>
<td>EC No 265-199-0</td>
<td></td>
<td></td>
<td><img src="image3" alt="flammable" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td>arom.</td>
<td></td>
<td></td>
<td></td>
<td><img src="image3" alt="flammable" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td>diiron trioxide</td>
<td>CAS No 1309-37-1</td>
<td>≥ 5 - &lt; 10</td>
<td>Aquatic Chronic 2 / H411</td>
<td><img src="image4" alt="dangerous" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td></td>
<td>EC No 215-168-2</td>
<td></td>
<td></td>
<td><img src="image4" alt="dangerous" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td>Rosin</td>
<td>CAS No 8050-09-7</td>
<td>≥ 5 - &lt; 10</td>
<td>Skin Sens. 1 / H317</td>
<td><img src="image5" alt="sensitising" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
<tr>
<td></td>
<td>EC No 232-475-7</td>
<td></td>
<td></td>
<td><img src="image5" alt="sensitising" /></td>
<td></td>
<td><img src="image2" alt="not relevant" /></td>
</tr>
</tbody>
</table>
For full text of abbreviations: see SECTION 16.

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Wash with plenty of soap and water.

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

Narcotic effects.

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.
5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**
Remove persons to safety.

**For emergency responders**
Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

**Advices on how to contain a spill**
Covering of drains.

**Advices on how to clean up a spill**
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

**Appropriate containment techniques**
Use of adsorbent materials.

**Other information relating to spills and releases**
Place in appropriate containers for disposal. Ventilate affected area.

**Reference to other sections**

### SECTION 7: Handling and storage

7.1 Precautions for safe handling

**Recommendations**

- **Measures to prevent fire as well as aerosol and dust generation**

  Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

- **Warning**

  Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.
Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks
• Explosive atmospheres
Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.
• Flammability hazards
Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Incompatible substances or mixtures
Observe hints for combined storage.

Consideration of other advice
• Ventilation requirements
Use local and general ventilation. Ground/bond container and receiving equipment.
• Packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
National limit values

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
<th>wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>iron oxide</td>
<td>1309-37-1</td>
<td>WEL</td>
<td>5</td>
<td>10</td>
<td></td>
<td></td>
<td>EH40/200</td>
<td>≥ 5 - &lt; 10</td>
</tr>
<tr>
<td>UK</td>
<td>rosin-based solder flux fume</td>
<td>8050-09-7</td>
<td>WEL</td>
<td>0.05</td>
<td>0.15</td>
<td></td>
<td></td>
<td>EH40/200</td>
<td>≥ 5 - &lt; 10</td>
</tr>
<tr>
<td>UK</td>
<td>rouge</td>
<td>1309-37-1</td>
<td>WEL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>EH40/200</td>
<td>≥ 5 - &lt; 10</td>
</tr>
<tr>
<td>UK</td>
<td>rouge</td>
<td>1309-37-1</td>
<td>WEL</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>EH40/200</td>
<td>≥ 5 - &lt; 10</td>
</tr>
<tr>
<td>UK</td>
<td>talc</td>
<td>14807-96-6</td>
<td>WEL</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>EH40/200</td>
<td>≥ 10 - &lt; 25</td>
</tr>
</tbody>
</table>

Notation
STEL  Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified
TWA   Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average
Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>End-point</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1</td>
<td>DNEL</td>
<td>10 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - local effects</td>
</tr>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1</td>
<td>DNEL</td>
<td>10 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>DNEL</td>
<td>17 mg/kg</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>DNEL</td>
<td>117 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>DNEL</td>
<td>83 mg/kg</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>DNEL</td>
<td>5 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>

• relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>End-point</th>
<th>Threshold level</th>
<th>Organism</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>7.8 µg/l</td>
<td>aquatic organisms</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>5.2 µg/l</td>
<td>aquatic organisms</td>
<td>marine water</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>230 µg/l</td>
<td>microorganisms</td>
<td>sewage treatment plant (STP)</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>87 mg/kg</td>
<td>benthic organisms</td>
<td>sediments</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>676 mg/kg</td>
<td>pelagic organisms</td>
<td>sediments</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>PNEC</td>
<td>65 mg/kg</td>
<td>terrestrial organisms</td>
<td>soil</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.0016 mg/l</td>
<td>aquatic organisms</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.00016 mg/l</td>
<td>aquatic organisms</td>
<td>marine water</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>1.000 mg/l</td>
<td>microorganisms</td>
<td>sewage treatment plant (STP)</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.007 mg/kg</td>
<td>benthic organisms</td>
<td>sediments</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.0007 mg/kg</td>
<td>pelagic organisms</td>
<td>sediments</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.00045 mg/kg</td>
<td>terrestrial organisms</td>
<td>soil</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>PNEC</td>
<td>0.016 mg/l</td>
<td>aquatic organisms</td>
<td>water</td>
<td>continuous</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Appropriate engineering controls
General ventilation.  

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection.

Skin protection

• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.
SECTIONS 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid
Colour:
- red for ref 3341/GL
- black for ref 3345/GL
- blue for ref 3342/GL
Odour: characteristic

Other physical and chemical parameters
pH (value): not determined
Melting point/freezing point: not determined
Initial boiling point and boiling range: 153 °C
Flash point: 38 °C (determination of flash point - rapid equilibrium closed cup method)
Evaporation rate: not determined
Flammability (solid, gas): not relevant (fluid)
Explosive limits: not determined
Vapour pressure: 5.1 mmHg at 25 °C
Density: 1.86
Solubility(ies): not determined
Partition coefficient:
n-octanol/water (log KOW): This information is not available.
Auto-ignition temperature: not determined
Viscosity: not determined
Explosive properties: none
Oxidising properties: none

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition
• if heated
risk of ignition

10.2 Chemical stability
See below "Conditions to avoid".
10.3 **Possibility of hazardous reactions**
No known hazardous reactions.

10.4 **Conditions to avoid**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints to prevent fire or explosion**
Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Physical stresses which might result in a hazardous situation and have to be avoided**
strong shocks

10.5 **Incompatible materials**
There is no additional information.

10.6 **Hazardous decomposition products**
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**
Test data are not available for the complete mixture.

**Classification procedure**
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)**

**Acute toxicity**
Shall not be classified as acutely toxic.

- **Acute toxicity of components of the mixture**

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>oral</td>
<td>LD50</td>
<td>1340 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>dicopper oxide</td>
<td>1317-39-1</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rabbit</td>
<td></td>
</tr>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;10000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>oral</td>
<td>LD50</td>
<td>2800 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
</tbody>
</table>
Skin corrosion/irritation
Causes skin irritation.

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)
• Specific target organ toxicity - single exposure
  May cause drowsiness or dizziness.
• Specific target organ toxicity - repeated exposure
  Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity
Very toxic to aquatic life.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1</td>
<td>EC50</td>
<td>&gt;100 mg/l</td>
<td>aquatic invertebrates</td>
<td>48 hours</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>EC50</td>
<td>2.6 mg/l</td>
<td>aquatic invertebrates</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

Aquatic toxicity (chronic)
May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>EC50</td>
<td>15.41 mg/l</td>
<td>microorganisms</td>
<td>40 h</td>
</tr>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1</td>
<td>EC50</td>
<td>&gt;10,000 mg/l</td>
<td>microorganisms</td>
<td>3 h</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>EC50</td>
<td>&gt;10,000 mg/l</td>
<td>microorganisms</td>
<td>3 h</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>EC50</td>
<td>0.19 mg/l</td>
<td>aquatic invertebrates</td>
<td>24 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
Data are not available.
Data are not available.

Solvent reclamation/regeneration.

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**12.3 Bioaccumulative potential**

Data are not available.

**Bioaccumulative potential of components of the mixture**

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>7,748</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Data are not available.

---

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste treatment-relevant information**

Solvent reclamation/regeneration.

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packagings**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**13.2 Relevant provisions relating to waste**

**Properties of waste which render it hazardous**

H 3-B ‘Flammable’:

liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

**13.3 Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
### SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1</th>
<th>UN number</th>
<th>1263</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2</td>
<td>UN proper shipping name</td>
<td>PAINT</td>
</tr>
<tr>
<td>14.3</td>
<td>Transport hazard class(es)</td>
<td>Class 3 (flammable liquids)</td>
</tr>
<tr>
<td>14.4</td>
<td>Packing group</td>
<td>III (substance presenting low danger)</td>
</tr>
<tr>
<td>14.5</td>
<td>Environmental hazards</td>
<td>hazardous to the aquatic environment (dicopper oxide)</td>
</tr>
</tbody>
</table>

**Special precautions for user**
Provisions for dangerous goods (ADR) should be complied within the premises.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

- **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**
  - **UN number**: 1263
  - **Proper shipping name**: PAINT
  - **Class**: 3
  - **Classification code**: F1
  - **Packing group**: III
  - **Danger label(s)**: 3 + "fish and tree"
  - **Environmental hazards**: yes (hazardous to the aquatic environment)
  - **Special provisions (SP)**: 163, 367, 640E, 650
  - **Excepted quantities (EQ)**: E1
  - **Limited quantities (LQ)**: 5 L
  - **Transport category (TC)**: 3
  - **Tunnel restriction code (TRC)**: D/E
  - **Hazard identification No**: 30

- **International Maritime Dangerous Goods Code (IMDG)**
  - **UN number**: 1263
  - **Proper shipping name**: PAINT
  - **Class**: 3
  - **Subsidiary risk(s)**: -
  - **Marine pollutant**: yes (hazardous to the aquatic environment)
  - **Packing group**: III
  - **Danger label(s)**: 3 + "fish and tree"
SECTION 15: Regulatory information

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

15.1.1. Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content

310 g/l

National regulations (Austria)

• Ordinance on combustible liquids (VbF)

VbF (group and hazard class):

This Regulation shall not apply:

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.
Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Description of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>hazardous to the aquatic environment - acute hazard</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
</tr>
<tr>
<td>Asp. Tox.</td>
<td>aspiration hazard</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>BioConcentration Factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical Oxygen Demand</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>DPD</td>
<td>Dangerous Preparations Directive (1999/45/EC)</td>
</tr>
<tr>
<td>EC No</td>
<td>The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)</td>
</tr>
<tr>
<td>EH40/2005</td>
<td>EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (<a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a>)</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>flammable liquid</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>log KOW</td>
<td>n-octanol/water</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant)</td>
</tr>
<tr>
<td>N</td>
<td>dangerous for the environment</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>Skin Corr.</td>
<td>corrosive to skin</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>irritant to skin</td>
</tr>
</tbody>
</table>
Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Abbr. | Descriptions of used abbreviations
--- | ---
Skin Sens. | skin sensitisation
STOT SE | specific target organ toxicity - single exposure
VbF | ordinance on combustible liquids (Austria)
VOC | Volatile Organic Compounds
vPvB | very Persistent and very Bioaccumulative
Xi | irritant
Xn | harmful

Key literature references and sources for data
- Supplier
- CLP (annexe VI and/or notification)
- ECHA

Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>may be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>may cause an allergic skin reaction</td>
</tr>
<tr>
<td>H336</td>
<td>may cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H400</td>
<td>very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>R10</td>
<td>flammable</td>
</tr>
<tr>
<td>R22</td>
<td>harmful if swallowed</td>
</tr>
<tr>
<td>R38</td>
<td>irritating to skin</td>
</tr>
<tr>
<td>R43</td>
<td>may cause sensitisation by skin contact</td>
</tr>
<tr>
<td>R50</td>
<td>very toxic to aquatic organisms</td>
</tr>
<tr>
<td>R50/53</td>
<td>very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R51/53</td>
<td>toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R53</td>
<td>may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R65</td>
<td>harmful: may cause lung damage if swallowed</td>
</tr>
<tr>
<td>R67</td>
<td>vapours may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>
Disclaimer
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Redactor
Written by NATURAKEM (www.naturakem.fr).