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

1.1. Product identifier

Product form: Mixture
Trade name: S2081EV DIAMOND UHS CLEARCOAT
Product code: S2081EV/1, S2081EV/5
Product group: Clearcoat

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

1.2.1. Relevant identified uses

Industrial/Professional use specification: Industrial
For professional use only
Function or use category: Coating

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED
Denington Road, Wellingborough
Northants. NN8 2QH - UK
T +44 (0) 1933 230310
technical.department@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number: CHEMTREC - +44 (0) 870 8200418 (24 hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flammable liquids, Category 2 H225
Skin sensitisation, Category 1 H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
Highly flammable liquid and vapour. May cause drowsiness or dizziness. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP):

Signal word (CLP): Danger

Hazardous ingredients:
n-butyl acetate; reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypropyloxyethylen) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionylloxy(poly(oxyethylene)); reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; 2-hydroxyethyl methacrylate

Hazard statements (CLP):
H225 - Highly flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP):
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing spray, vapours, fume.
P273 - Avoid release to the environment.
P280 - Wear face protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P312 - Call a doctor if you feel unwell.

EUH-statements:
EUH066 - Repeated exposure may cause skin dryness or cracking.
### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1907/2006 (REACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-butyl acetate</td>
<td>(CAS-No.) 123-86-4</td>
<td>20-50</td>
<td>Flam. Liq. 3, H226 STOT SE 3, H336</td>
</tr>
<tr>
<td>4-methylpentan-2-one; isobutyl methyl ketone</td>
<td>(CAS-No.) 108-10-1</td>
<td>5-10</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td>solvent naphtha (petroleum), light aromatic</td>
<td>(CAS-No.) 64742-95-6</td>
<td>5-10</td>
<td>Flam. Liq. 3, H226 STOT SE 3, H336</td>
</tr>
<tr>
<td>heptan-2-one</td>
<td>(CAS-No.) 110-43-0</td>
<td>5-10</td>
<td>Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td>2-butoxyethyl acetate; butylglycol acetate</td>
<td>(CAS-No.) 112-07-2</td>
<td>1-2.5</td>
<td>Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td>2-hydroxyethyl methacrylate (Note D)</td>
<td>(CAS-No.) 886-77-9</td>
<td>0.1-1</td>
<td>Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317</td>
</tr>
<tr>
<td>reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tet-butyl-4-hydroxypropyl)propionyl-&lt;i&gt;u&lt;/i&gt;-hydroxypropoxy&lt;/i&gt;(oxymethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tet-butyl-4-hydroxypropyl)propionyl-&lt;i&gt;u&lt;/i&gt;-3-(2H-benzotriazol-2-yl)-5-tet-butyl-4-hydroxypropyl&lt;/i&gt;(propionyloxypropoxy&lt;/i&gt;(oxymethylene)</td>
<td>(EC-No.) 400-830-7</td>
<td>0.3-1</td>
<td>Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</td>
<td>(CAS-No.) 1065336-91-5</td>
<td>0.1-1</td>
<td>Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

**Note 5**: The concentration limits for gaseous mixtures are expressed as volume per volume percentage.

**Note D**: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

**Note H**: The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered.

**Note P**: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **First-aid measures general**: Call a poison center or a doctor if you feel unwell.
- **First-aid measures after inhalation**: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4. Most important symptoms and effects, both acute and delayed

Symptoms/effects: May cause drowsiness or dizziness.

Symptoms/effects after skin contact: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours, fume, spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage. Contain released product, pump into suitable containers.
Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, fume, spray. Avoid contact with skin and eyes.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Storage temperature: < 25 °C
Storage area: Store in a well-ventilated place.
Special rules on packaging: Keep only in original container.

7.3. Specific end use(s)

No additional information available
## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### n-butyl acetate (123-86-4)

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>EU Notes</th>
<th>EU Regulatory reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>724 mg/m³</td>
<td>SCOEL Recommendations</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (ppm)</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>966 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (ppm)</td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

#### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>EU Notes</th>
<th>EU Regulatory reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>208 mg/m³</td>
<td>COMMISSION DIRECTIVE 2000/39/EC</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (ppm)</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>416 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (ppm)</td>
<td>100 ppm</td>
<td></td>
</tr>
</tbody>
</table>

#### 2-butoxyethyl acetate; butylglycol acetate (112-07-2)

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>EU Notes</th>
<th>EU Regulatory reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>133 mg/m³</td>
<td>COMMISSION DIRECTIVE 2000/39/EC</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (ppm)</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>333 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (ppm)</td>
<td>50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Remark (WEL):** Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity). BMGV (Biological monitoring guidance values are listed in Table 2)
**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>aromatic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 35 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>14 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**8.2. Exposure controls**

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Materials for protective clothing:**

- **Impermeable clothing**
- **Hand protection:** Protective gloves
- **Eye protection:** Safety glasses
- **Skin and body protection:** Wear suitable protective clothing
- **Respiratory protection:** Air-fed respiratory protective equipment should be worn when this product is sprayed

**Environmental exposure controls:**

Avoid release to the environment.
S2081EV DIAMOND UHS CLEARCOAT
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: No data available
- **Density**: 0.96 - 0.98 g/cm³
- **Solubility**: insoluble in water, soluble in most organic solvents.
- **Log Pow**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available
- **Explosive properties**: No data available
- **Oxidising properties**: No data available
- **Explosive limits**: No data available

### 9.2. Other information
- **VOC content**: 482 g/l

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
Highly flammable liquid and vapour.

#### 10.2. Chemical stability
Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials
No additional information available

#### 10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects
- **Acute toxicity (oral)**: Not classified
- **Acute toxicity (dermal)**: Not classified
- **Acute toxicity (inhalation)**: Not classified

##### n-butyl acetate (123-86-4)
- **LD50 oral rat**: 10760 - 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value)
- **LD50 dermal rabbit**: 14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value)

##### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)
- **LD50 oral rat**: 2080 mg/kg (Equivalent or similar to OECD 401, Rat, Experimental value)
- **LD50 dermal rat**: >= 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)
- **LC50 inhalation rat (mg/l)**: 8.2 - 16.4 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value)

##### 2-butoxyethyl acetate; butylglycol acetate (112-07-2)
- **LD50 oral rat**: 1880 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value)
- **LD50 dermal rabbit**: 1500 mg/kg (24 h, Rabbit, Experimental value)

##### heptan-2-one (110-43-0)
- **LD50 oral rat**: 1600 mg/kg bodyweight (Rat, Experimental value)
- **LD50 dermal rat**: > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)
- **LC50 inhalation rat (mg/l)**: > 16.7 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value)

- **Skin corrosion/irritation**: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

IARC group: 2B - Possibly carcinogenic to humans
Reproductive toxicity: Not classified
STOT-single exposure: May cause drowsiness or dizziness.
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

n-butyl acetate (123-86-4)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>18 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>44 mg/l (48 h, Daphnia sp., Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 72h algae (1)</td>
<td>674.7 mg/l (Desmodesmus subspicatus, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>600 mg/l (96 h, Salmo gairdneri, Fresh water, Literature study)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 179 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 200 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 96h algae (1)</td>
<td>400 mg/l (Selenastrum capricornutum, Literature study)</td>
</tr>
</tbody>
</table>

reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-buty1-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-buty1-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-buty1-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>4 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 100 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

2-butoxyethyl acetate; butylglycol acetate (112-07-2)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>20 - 40 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>37 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>1570 mg/l (ISO 8692, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

heptan-2-one (110-43-0)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>131 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 90.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

### n-butyl acetate (123-86-4)

**Persistence and degradability**

Readily biodegradable in water.

<table>
<thead>
<tr>
<th>ThOD</th>
<th>2.21 g O₂ /g substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD (%) of ThOD</td>
<td>0.46</td>
</tr>
</tbody>
</table>

### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

**Persistence and degradability**

Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.

<table>
<thead>
<tr>
<th>Biochemical oxygen demand (BOD)</th>
<th>2.06 g O₂ /g substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>2.16 g O₂ /g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>2.72 g O₂ /g substance</td>
</tr>
<tr>
<td>BOD (%) of ThOD</td>
<td>0.76</td>
</tr>
</tbody>
</table>

### solvent naphtha (petroleum), light aromatic (64742-95-6)

May cause long-term adverse effects in the environment.

### 2-butoxyethyl acetate; butylglycol acetate (112-07-2)

**Persistence and degradability**

Readily biodegradable in water.

<table>
<thead>
<tr>
<th>ThOD</th>
<th>2.1 g O₂ /g substance</th>
</tr>
</thead>
</table>

### heptan-2-one (110-43-0)

**Persistence and degradability**

Readily biodegradable in water.

| BOD (%) of ThOD | 0.44 |

12.3. Bioaccumulative potential

### n-butyl acetate (123-86-4)

**BCF fish 1**

15.3 (Calculated value)

**Log Pow**

2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)

**Bioaccumulative potential**

Low potential for bioaccumulation (Log Kow < 4).

### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

**BCF fish 1**

2 - 5 (Pisces, Estimated value)

**Log Pow**

1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

**Bioaccumulative potential**

Low potential for bioaccumulation (BCF < 500).

### solvent naphtha (petroleum), light aromatic (64742-95-6)

**Log Pow**

2.1 - 6

**Bioaccumulative potential**

Not established.

**reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionylloxypoly(oxyethylene)**

**BCF fish 1**

2658 - 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)

**Log Pow**

4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
## 12.4. Mobility in soil

### n-butyl acetate (123-86-4)

- **Surface tension**: 0.0163 N/m (20 °C)
- **Log Koc**: 1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)
- **Ecology - soil**: Low potential for adsorption in soil.

### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

- **Surface tension**: 0.024 N/m (20 °C)
- **Log Koc**: 2.008 (log Koc, Weight of evidence, Calculated value)
- **Ecology - soil**: Low potential for adsorption in soil.

### 2-butoxyethyl acetate; butylglycol acetate (112-07-2)

- **Surface tension**: 0.026 N/m (20 °C)
- **Ecology - soil**: No straightforward conclusion can be drawn based upon the available numerical values.

### heptan-2-one (110-43-0)

- **Surface tension**: 0.0591 N/m (21.6 °C)
- **Log Koc**: 1.45 (log Koc, EU Method C.19, Experimental value)
- **Ecology - soil**: Highly mobile in soil.

### 12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Component</th>
<th>PBT Criteria</th>
<th>vPvB Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
<tr>
<td>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</td>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
<tr>
<td>2-butoxyethyl acetate; butylglycol acetate (112-07-2)</td>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
</tbody>
</table>

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- **Regional legislation (waste)**: Disposal must be done according to official regulations.
- **Waste treatment methods**: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
- **Additional information**: Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1263</td>
<td>1263</td>
<td>1263</td>
<td>1263</td>
<td>1263</td>
</tr>
</tbody>
</table>

### 14.2. UN proper shipping name

- **PAINT**
**Transport document description**

<table>
<thead>
<tr>
<th>UN 1263 PAINT, 3, II, (D/E)</th>
<th>UN 1263 PAINT, 3, II</th>
<th>UN 1263 Paint, 3, II</th>
<th>UN 1263 PAINT, 3, II</th>
<th>UN 1263 PAINT, 3, II</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.3. Transport hazard class(es)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**14.4. Packing group**

II

**14.5. Environmental hazards**

<table>
<thead>
<tr>
<th></th>
<th>Dangerous for the environment : No</th>
<th>Dangerous for the environment : No</th>
<th>Dangerous for the environment : No</th>
<th>Dangerous for the environment : No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant : No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No supplementary information available

**14.6. Special precautions for user**

**Overland transport**

- Classification code (ADR) : F1
- Special provisions (ADR) : 163, 640C, 650
- Limited quantities (ADR) : 5l
- Excepted quantities (ADR) : E2
- Packing instructions (ADR) : P001
- Special packing provisions (ADR) : PP1
- Mixed packing provisions (ADR) : MP19
- Portable tank and bulk container instructions (ADR) : T4
- Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
- Tank code (ADR) : L1.5BN
- Vehicle for tank carriage : FL
- Transport category (ADR) : 2
- Special provisions for carriage - Operation (ADR) : S2, S20
- Hazard identification number (Kemler No.) : 33
- Orange plates :

- Tunnel restriction code (ADR) : D/E
- EAC code : •3YE

**Transport by sea**

- Special provisions (IMDG) : 163
- Limited quantities (IMDG) : 5 L
- Excepted quantities (IMDG) : E2
- Packing instructions (IMDG) : P001
- Special packing provisions (IMDG) : PP1
- IBC packing instructions (IMDG) : IBC02
- Tank instructions (IMDG) : T4
- Tank special provisions (IMDG) : TP1, TP8, TP28
- EmS-No. (Fire) : F-E
- EmS-No. (Spillage) : S-E
- Stowage category (IMDG) : B
- Properties and observations (IMDG) : Miscibility with water depends upon the composition.

**Air transport**

- PCA Excepted quantities (IATA) : E2
S2081EV DIAMOND UHS CLEARCOAT

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Not applicable

### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

<table>
<thead>
<tr>
<th>3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2081EV DIAMOND UHS CLEARCOAT - n-butyl acetate - Hamsol 100 - isobutyl methyl ketone - reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-u-hydroxypropoxy(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - 2-hydroxyethyl methacrylate - 2-butoxyethyl acetate; butylglycol acetate; butoxyethyl acetate; butylglycol acetate</td>
</tr>
<tr>
<td>S2081EV DIAMOND UHS CLEARCOAT - n-butyl acetate - Hamsol 100 - isobutyl methyl ketone - heptan-2-one</td>
</tr>
<tr>
<td>3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10</td>
</tr>
</tbody>
</table>
### Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal), Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation, Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1A</td>
<td>Skin sensitisation, category 1A</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Narcosis</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<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>H312</td>
<td>Harmful in contact with skin.</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>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

---

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 482 g/l

Directive 2012/18/EU (SEVESO III)

**15.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out
### SDS EU (REACH Annex II)

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyer's responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL’s recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at WWW.U-POL.COM.

### Hazards

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
</tbody>
</table>