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

1.1 Product identifier

Supagard Quick Drying Fabric Protector

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

1.2.1 Relevant uses

Impregnating

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company SUPAGARD LIMITED
19-27 Gavinton Street
Muirend, Glasgow G44 3EF
Phone 0141 633 5933
Fax 0141 637 7219
Homepage www.supagard.co.uk
E-mail info@supagard.co.uk

Address enquiries to
Technical information info@supagard.co.uk
Safety Data Sheet www.supagard.co.uk/downloads

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Irrit. 2: H315 Causes skin irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

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

Xi, Irritant - R 38: Irritating to skin.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67: Vapours may cause drowsiness and dizziness.
2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms

Signal word
DANGER

Contains:
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
P280 Wear protective gloves / eye protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER / doctor if you feel unwell.
P273 Avoid release to the environment.

2.3 Other hazards

Physico-chemical hazards
Risk of bursting.

Human health dangers
Danger of serious damage to health by prolonged exposure through inhalation.

Environmental hazards
Does not contain any PBT or vPvB substances.

Other hazards
Further hazards were not determined with the current level of knowledge.
SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

<table>
<thead>
<tr>
<th>Range</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 30</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane</td>
</tr>
<tr>
<td>15 - &lt;25</td>
<td>Ethanol</td>
</tr>
<tr>
<td>5 - &lt;15</td>
<td>Hydrocarbons, C4, 1,3-butadiene-free, polymd., trisobutylene fraction, hydrogenated</td>
</tr>
<tr>
<td>5 - &lt;15</td>
<td>Alkanes, C9-12-iso</td>
</tr>
<tr>
<td>1 - &lt;10</td>
<td>Propane</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>Butane</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>Isopropyl acetate</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>n-Butyl acetate</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>iso-Butane</td>
</tr>
<tr>
<td>&lt;1</td>
<td>Cyclohexane</td>
</tr>
<tr>
<td>&lt;1</td>
<td>n-Hexane</td>
</tr>
</tbody>
</table>

Comment on component parts
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.
SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Take off contaminated clothing and wash before reuse.

Inhalation
Remove person to fresh air and keep comfortable for breathing.
Seek medical advice immediately.

Skin contact
In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion
Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Drowsiness
Vertigo
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used
Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective clothing.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13
SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Provide suitable vacuuming at the processing area.
- Use only in well-ventilated areas.
- Avoid spilling or spraying in enclosed areas.
- Vapours can form an explosive mixture with air.
- Keep away from all sources of ignition - Refrain from smoking.
- Do not eat, drink, smoke or take drugs at work.
- After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
- Use barrier skin cream.
- Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

- Provide solvent-resistant and impermeable floor.
- Prevent penetration into the ground.
- Do not store together with oxidizing agents.
- Do not store together with food and animal food/diet.
- Keep container in a well-ventilated place.
- Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2
### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

**Ingredients with occupational exposure limits to be monitored (GB)**

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>EC LIMIT VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - &lt;15</td>
<td>Alkanes, C9-12-iso</td>
<td>CAS: 90622-57-4, EINECS/ELINCS: 923-037-2, ECB-Nr.: 01-2119471991-29-XXXX Long-term exposure: 800 mg/m³</td>
</tr>
<tr>
<td>20 - 30</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane</td>
<td>EINECS/ELINCS: 921-024-6, ECB-Nr.: 01-2119475514-35-XXXX Long-term exposure: 1200 mg/m³</td>
</tr>
<tr>
<td>15 - &lt;25</td>
<td>Ethanol</td>
<td>CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, ECB-Nr.: 01-2119457610-43-XXXX Long-term exposure: 1000 ppm, 1920 mg/m³</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>n-Butyl acetate</td>
<td>CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, ECB-Nr.: 01-2119485493-29-XXXX Long-term exposure: 150 ppm, 724 mg/m³ Short-term exposure (15-minute): 200 ppm, 966 mg/m³</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>Isopropyl acetate</td>
<td>CAS: 108-21-4, EINECS/ELINCS: 203-561-1, EU-INDEX: 607-024-00-6 Short-term exposure (15-minute): 200 ppm, 849 mg/m³</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>iso-Butane</td>
<td>CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0 Long-term exposure: 600 ppm, 1450 mg/m³, (Butane) Short-term exposure (15-minute): 750 ppm, 1810 mg/m³</td>
</tr>
<tr>
<td>1 - &lt;5</td>
<td>Butane</td>
<td>CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119474891-32-XXXX Long-term exposure: 600 ppm, 1450 mg/m³ Short-term exposure (15-minute): 750 ppm, 1810 mg/m³</td>
</tr>
<tr>
<td>&lt;1</td>
<td>n-Hexane</td>
<td>CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, ECB-Nr.: 01-2119480412-44-XXXX Long-term exposure: 20 ppm, 72 mg/m³</td>
</tr>
<tr>
<td>&lt;1</td>
<td>Cyclohexane</td>
<td>CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1 Long-term exposure: 100 ppm, 350 mg/m³ Short-term exposure (15-minute): 300 ppm, 1050 mg/m³</td>
</tr>
</tbody>
</table>

**Ingredients with occupational exposure limits to be monitored (EU)**

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance / EC LIMIT VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>n-Hexane</td>
</tr>
<tr>
<td>&lt;1</td>
<td>Cyclohexane</td>
</tr>
</tbody>
</table>

**DNEL**

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 30</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane worker, inhalative, Long-term - systemic effects: 2035 mg/m³. worker, dermal, Long-term - systemic effects: 773 mg/kg bw/d. general population, inhalative, Long-term - systemic effects: 608 mg/m³.</td>
</tr>
</tbody>
</table>
## General Population, Dermal, Long-term - Systemic Effects

- **Ethanol, CAS: 64-17-5**
  - Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/day.
  - Industrial, inhalative, Acute - local effects: 1900 mg/m³.
  - Industrial, inhalative, Long-term - systemic effects: 950 mg/m³.
  - General population, inhalative, Long-term - systemic effects: 114 mg/m³.
  - General population, oral, Long-term - systemic effects: 87 mg/kg bw/day.
  - General population, dermal, Long-term - systemic effects: 206 mg/kg bw/day.
  - General population, inhalative, Acute - local effects: 950 mg/m³.

## General Population, Oral, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - General population, oral, Long-term - systemic effects: 699 mg/kg bw/day.

## General Population, Inhalative, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - General population, inhalative, Long-term - systemic effects: 699 mg/kg bw/day.

## Industrial, Dermal, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/day.

## Industrial, Inhalative, Acute - Local Effects

- Ethanol, CAS: 64-17-5
  - Industrial, inhalative, Acute - local effects: 1900 mg/m³.

## Industrial, Inhalative, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - Industrial, inhalative, Long-term - systemic effects: 950 mg/m³.

## General Population, Inhalative, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - General population, inhalative, Long-term - systemic effects: 114 mg/m³.

## General Population, Oral, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - General population, oral, Long-term - systemic effects: 87 mg/kg bw/day.

## General Population, Dermal, Long-term - Systemic Effects

- Ethanol, CAS: 64-17-5
  - General population, dermal, Long-term - systemic effects: 206 mg/kg bw/day.

## General Population, Inhalative, Acute - Local Effects

- Ethanol, CAS: 64-17-5
  - General population, inhalative, Acute - local effects: 950 mg/m³.

## n-Butyl Acetate, CAS: 123-86-4

<table>
<thead>
<tr>
<th>Range [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 - &lt;25</td>
</tr>
<tr>
<td>Substance</td>
</tr>
</tbody>
</table>

- Oral (food), 0.72 mg/kg.
- Soil, 0.63 mg/kg.
- Sediment (freshwater), 3.6 mg/kg.
- Seawater, 0.79 mg/l.
- Freshwater, 0.96 mg/l.

## n-Hexane, CAS: 110-54-3

<table>
<thead>
<tr>
<th>Range [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
</tr>
<tr>
<td>Substance</td>
</tr>
</tbody>
</table>

- Industrial, inhalative, Long-term - systemic effects: 75 mg/m³.
- Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
- General population, oral, Long-term - systemic effects: 4 mg/kg bw/day.
- General population, inhalative, Long-term - systemic effects: 16 mg/m³.
- General population, dermal, Long-term - systemic effects: 5.3 mg/kg bw/day.

## PNEC

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 - &lt;25</td>
<td>Ethanol, CAS: 64-17-5</td>
</tr>
<tr>
<td>Oral (food), 0.72 mg/kg.</td>
<td></td>
</tr>
<tr>
<td>Soil, 0.63 mg/kg.</td>
<td></td>
</tr>
<tr>
<td>Sediment (freshwater), 3.6 mg/kg.</td>
<td></td>
</tr>
<tr>
<td>Seawater, 0.79 mg/l.</td>
<td></td>
</tr>
<tr>
<td>Freshwater, 0.96 mg/l.</td>
<td></td>
</tr>
</tbody>
</table>

| 1 - <5    | n-Butyl acetate, CAS: 123-86-4 |
| Soil, 0.0903 mg/kg. |
| Sediment (seaater), 0.0981 mg/kg. |
| Sediment (freshwater), 0.981 mg/kg. |
| Sewage treatment plants (STP), 35.6 mg/l. |
| Seawater, 0.018 mg/l. |
| Freshwater, 0.18 mg/l. |
8.2 Exposure controls

Additional advice on system design: Ensure adequate ventilation on workstation.

Eye protection: Safety glasses.

Hand protection: The details concerned are recommendations. Please contact the glove supplier for further information.

Butyl rubber, >480 min (EN 374).

Skin protection: Light protective clothing.

Other: Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection: Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, combination filter A-P2.

We recommend the use of a mask, type 3M 4251 or equivalent. In confined areas a mask must be worn.

Thermal hazards: None.

Delimitation and monitoring of the environmental exposition: See SECTION 6+7.

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>Form</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Color</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH-value [%]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas) [°C]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No</td>
</tr>
<tr>
<td>Vapour pressure/gas pressure [kPa]</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density [g/ml]</td>
<td>Not determined</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient [n-octanol/water]</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative vapour density determined in air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation speed</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition temperature [°C]</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature [°C]</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.
10.2 Chemical stability
Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions
Risk of bursting.
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid
See SECTION 7.2.

10.5 Incompatible materials
Oxidizing agent

10.6 Hazardous decomposition products
Flammable gases/vapours.
### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>Acute Toxicity Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - &lt;5</td>
<td>Butane, CAS: 106-97-8</td>
<td>LC50, inhalative, Rat: 658 mg/L (IUCLID).</td>
</tr>
</tbody>
</table>
| <1        | Cyclohexane, CAS: 110-82-7 | LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID).  
LD50, oral, Rat: > 5000 mg/kg (IUCLID). |
| 20 - 30   | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | LD50, oral, Rat: > 5000 mg/kg (IUCLID).  
LD50, dermal, Rabbit: > 3160 mg/kg (IUCLID).  
LC50, inhalative, Rat: 25.2 mg/l 6h (IUCLID). |
| 1 - <5    | iso-Butane, CAS: 75-28-5 | LC50, inhalative, Rat: 570000 ppm (IUCLID). |
| 1 - <10   | Propane, CAS: 74-98-6 | LC50, inhalative, Rat: 658 mg/L (IUCLID). |
LD50, oral, Rat: 10470 mg/kg (OECD 401).  
LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403).  
NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451). |
| 1 - <5    | n-Butyl acetate, CAS: 123-86-4 | LC50, inhalative, Rat: 23.4 mg/l (4h) (OECD 403). |
| <1        | n-Hexane, CAS: 110-54-3 | LD50, oral, Rat: 25000 mg/kg bw (GESTIS).  
LD50, dermal, Rabbit: 3000 mg/kg bw (IUCLID).  
LC50, inhalative, Rat: 169 mg/L (4h) (GESTIS). |
| 5 - <15   | Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated, CAS: 93685-81-5 | LD50, dermal, Rabbit: >5000 mg/kg bw.  
LD50, oral, Rat: >5000 mg/kg bw.  
LC50, inhalative, Rat: >5 mg/L. |

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** not determined

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks**

Toxicological data of complete product are not available. The product was classified on the basis of the calculation procedure of the preparation directive. The toxicity data listed pertaining to the ingredients are intended for those working in the
**SECTION 12: Ecological information**

### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>LC50, (96h), fish:</th>
<th>EC50, (48h), Daphnia magna:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>Cyclohexane, CAS: 110-82-7</td>
<td>93.0 - 117 mg/l</td>
<td>3.78 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(IUCLID)</td>
<td>(IUCLID)</td>
</tr>
<tr>
<td>20 - 30</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane</td>
<td>93 mg/l</td>
<td>2.6 mg/l</td>
</tr>
<tr>
<td>1 - 5</td>
<td>Isopropyl acetate, CAS: 108-21-4</td>
<td>265 mg/l</td>
<td>4150 mg/l</td>
</tr>
<tr>
<td>15 - &lt;25</td>
<td>Ethanol, CAS: 64-17-5</td>
<td>12340 mg/l</td>
<td>275 mg/l (OECD 201)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12900 mg/l (OECD 201)</td>
</tr>
<tr>
<td>1 - 5</td>
<td>n-Butyl acetate, CAS: 123-86-4</td>
<td>18 mg/l</td>
<td>647.7 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>44 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>356 mg/l (40 h)</td>
</tr>
<tr>
<td>&lt;1</td>
<td>n-Hexane, CAS: 110-54-3</td>
<td>2,5 mg/L</td>
<td>200 mg/l</td>
</tr>
<tr>
<td>5 - &lt;15</td>
<td>Hydrocarbons, C4, 1,3-butadiene-free, polym., trisobutylene fraction, hydrogenated, CAS: 93685-81-5</td>
<td>&gt;1,7 mg/L</td>
<td>&gt;1,3 mg/L</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and degradability

| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant              | not determined |
| Biological degradability               | not determined |

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110* 150104

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID
- Classification Code 5F
- Label

- ADR LQ 1 l
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN)
- Classification Code 5F
- Label

Marine transport in accordance with IMDG
- EMS F-D, S-U
- Label

- IMDG LQ 1 l

Air transport in accordance with IATA
- Label

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name
14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not determined

SECTION 15: Regulatory information

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

EEC-REGULATIONS
1272/2008; 75/324/ECC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

NATIONAL REGULATIONS (GB):
CHIP 3/ CHIP 4

- Observe employment restrictions for people
  Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (1999/13/CE)
  99%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 11: Highly flammable.
R 38: Irritating to skin.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65: Harmful - may cause lung damage if swallowed.
R 67: Vapours may cause drowsiness and dizziness.
R 10: Flammable.
R 53: May cause long-term adverse effects in the aquatic environment.
R 66: Repeated exposure may cause skin dryness or cracking.
R 12: Extremely flammable.
R 36: Irritating to eyes.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 62: Possible risk of impaired fertility.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H361f Suspected of damaging fertility.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
H413 May cause long lasting harmful effects to aquatic life.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H225 Highly flammable liquid and vapour.
16.3 Abbreviations and acronyms:

**ADR** = Accord européen relatif au transport international des marchandises dangereuses par Route
**RID** = Règlement concernant le transport international ferroviaire de marchandises dangereuses
**ADN** = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
**CAS** = Chemical Abstracts Service
**CLP** = Classification, Labelling and Packaging
**DMEL** = Derived Minimum Effect Level
**DNEL** = Derived No Effect Level
**EC50** = Median effective concentration
**ECB** = European Chemicals Bureau
**EEC** = European Economic Community
**EINECS** = European Inventory of Existing Commercial Chemical Substances
**ELINCS** = European List of Notified Chemical Substances
**GHS** = Globally Harmonized System of Classification and Labelling of Chemicals
**IATA** = International Air Transport Association
**IBC-Code** = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
**IC50** = Inhibition concentration, 50%
**IMDG** = International Maritime Code for Dangerous Goods
**IUCLID** = International Uniform Chemical Information Database
**LC50** = Lethal concentration, 50%
**LD50** = Median lethal dose
**MARPOL** = International Convention for the Prevention of Marine Pollution from Ships
**PBT** = Persistent, Bioaccumulative and Toxic substance
**PNEC** = Predicted No-Effect Concentration
**REACH** = Registration, Evaluation, Authorisation and Restriction of Chemicals
**TLV®/TWA** = Threshold limit value – time-weighted average
**TLV®STEL** = Threshold limit value – short-time exposure limit
**VOC** = Volatile Organic Compounds
**vPvB** = very Persistent and very Bioaccumulative

16.4 Other information

**Classification procedure**

Aerosol 1: H222 Extremely flammable aerosol. (On basis of test data) H229 Pressurised container: May burst if heated. (On basis of test data)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

**Modified position**

SECTION 2 been added: H304 May be fatal if swallowed and enters airways. (On basis of test data)
SECTION 2 been added: P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
SECTION 2 been added: P284 [In case of inadequate ventilation] wear respiratory protection.
SECTION 2 been added: P280 Wear protective gloves / eye protection.
SECTION 2 been added: P260 Do not breathe vapours / spray.
SECTION 2 deleted: H319 Causes serious eye irritation.
SECTION 4 been added: Seek medical advice immediately.
SECTION 4 been added: Remove person to fresh air and keep comfortable for breathing.
SECTION 7 been added: After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

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