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

1.1 Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>STAPA METALLIC 601 Aluminium Paste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material number</td>
<td>057303G60M1</td>
</tr>
</tbody>
</table>

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>ECKART GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guentersthal 4</td>
<td>91235 Hartenstein</td>
</tr>
<tr>
<td>Telephone</td>
<td>+499152770</td>
</tr>
<tr>
<td>Telefax</td>
<td>+499152777008</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:msds.eckart@altana.com">msds.eckart@altana.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:

From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free) 1-800-5355-053

SECTION 2: Hazards identification

GHS Classification

| Long-term (chronic) aquatic hazard, Category 3, H412 |

GHS-Labelling
Hazard statements: H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
P273 Avoid release to the environment.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Other hazards which do not result in classification

Combustible Solids

**SECTION 3: Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Substance No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
<td>:</td>
</tr>
</tbody>
</table>

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EINECS-No.</th>
<th>Classification and labelling</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5 231-072-3</td>
<td>Flam. Sol.;1;H228</td>
<td>50 - 100</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-48-9</td>
<td>Flam. Liq.;4;H227 Asp. Tox.;1;H304</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>64742-95-6</td>
<td>Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335, H336</td>
<td>5 - 20</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>General advice</th>
<th>Asp. Tox.;1;H304 Aquatic Chronic;2;H411</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move the victim to fresh air.</td>
<td></td>
</tr>
<tr>
<td>Do not leave the victim unattended.</td>
<td></td>
</tr>
<tr>
<td>No hazards which require special first aid measures.</td>
<td></td>
</tr>
</tbody>
</table>

If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water.

In case of eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- Dry sand, Special powder against metal fire

Unsuitable extinguishing media:
- Water, Foam, ABC powder, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:
- Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters:
- Use personal protective equipment.
  - Wear self-contained breathing apparatus for firefighting if necessary.

Further information:
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:
- Evacuate personnel to safe areas.
- Use personal protective equipment.
- Remove all sources of ignition.
- Avoid dust formation.
6.2 Environmental precautions

Environmental precautions:
Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:
Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel.
Do not flush with water.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:
Keep away from heat and sources of ignition. Avoid dust formation. Ensure adequate ventilation.
For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:
Keep away from open flames, hot surfaces and sources of ignition. Earthing of containers and apparatuses is essential.
Normal measures for preventive fire protection.

Hygiene measures:
General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions: Protect from humidity and water. Do not allow to dry.

Advice on common storage: Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>AGW (Inhalable fraction)</td>
<td>10 mg/m3</td>
<td>2014-04-02</td>
<td>DE TRGS 900</td>
</tr>
<tr>
<td>Peak-limit: excursion factor (category)</td>
<td></td>
<td></td>
<td>2;(II)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
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</table>

Further information: Commission for dangerous substancesSenate commission for the
<table>
<thead>
<tr>
<th>Substance Description</th>
<th>AGW (Alveolate fraction)</th>
<th>Peak-limit: excursion factor (category)</th>
<th>Commission for dangerous substancesΣenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
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<td>1,25 mg/m³</td>
<td>2014-04-02 DE TRGS 900</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-48-9</td>
<td>300 mg/m³</td>
<td>2017-11-30 DE TRGS 900</td>
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<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>64742-95-6</td>
<td>100 mg/m³</td>
<td>2009-02-16 DE TRGS 900</td>
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Further information:
- Commission for dangerous substances
- Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
United States of America (USA):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (total dust)</td>
<td>50 Million particles per cubic foot</td>
<td>2012-07-01</td>
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</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
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</tr>
<tr>
<td>aluminium powder (stabilised)</td>
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<td>TWA (total dust)</td>
<td>15 mg/m³</td>
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<tr>
<td>aluminium powder (stabilised)</td>
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<td>TWA (total)</td>
<td>10 mg/m³</td>
<td>2013-10-08</td>
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<tr>
<td>aluminium powder (stabilised)</td>
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<td></td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
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<td>PEL (Total dust)</td>
<td>10 mg/m³</td>
<td>2014-11-26</td>
<td></td>
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<tr>
<td>aluminium powder (stabilised)</td>
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<td>PEL (respirable dust fraction)</td>
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<tr>
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<td>TWA (Respirable fraction)</td>
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<td>TWA</td>
<td>5 mg/m³</td>
<td>2005-09-01</td>
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<tr>
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<td>TWA (Total)</td>
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<td>1989-01-19</td>
<td></td>
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<tr>
<td>Powder (stabilised)</td>
<td>Respirable fraction</td>
<td>TWA</td>
<td>Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>2011-07-01</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>2011-07-01</td>
<td></td>
<td></td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>1989-01-19</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (respirable dust fraction)</td>
<td>5 mg/m³</td>
<td>1989-01-19</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (welding fumes)</td>
<td>5 mg/m³</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (pyro powders)</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (Respirable fraction)</td>
<td>1 mg/m³</td>
<td>2013-03-01</td>
<td></td>
<td></td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>TWA (Fumes)</td>
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<td>1989-01-19</td>
<td></td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>2014-11-26</td>
<td></td>
<td></td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>2014-11-26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen</td>
<td>TWA</td>
<td>500 ppm 2 000 mg/m³</td>
<td>2007-01-01</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## SAFETY DATA SHEET

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### STAPA METALLIC 601 Aluminium Paste

Version 2.6  
Revision Date 29.11.2018  
Print Date 03.12.2018

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
</tr>
</thead>
</table>
| 64742-48-9 | TWA | 400 ppm  
1 600 mg/m³ | 1989-01-19 |
| 64742-95-6 | TWA | 500 ppm  
2 000 mg/m³ | 2007-01-01 |
| 64742-95-6 | TWA | 200 mg/m³ | 2010-03-01 |
| 64742-95-6 | TWA | 400 ppm  
1 600 mg/m³ | 1989-01-19 |

### United States of America (USA):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
</tr>
</thead>
</table>
| treated naphtha | 64742-48-9 | TWA | 400 ppm  
1 600 mg/m³ | 1989-01-19 |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6 | TWA | 200 mg/m³ | 2010-03-01 |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6 | TWA | 400 ppm  
1 600 mg/m³ | 1989-01-19 |
<table>
<thead>
<tr>
<th>Substance</th>
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<th>Measurement Unit</th>
<th>Limit</th>
<th>Date</th>
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<tr>
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<td>5 mg/m³</td>
<td>1989-01-19</td>
</tr>
<tr>
<td>Aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (welding fumes)</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (pyro powders)</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
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<tr>
<td>Aluminium powder (stabilised)</td>
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</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-48-9</td>
<td>TWA</td>
<td>500 ppm 2 000 mg/m³</td>
<td>2007-01-01</td>
</tr>
<tr>
<td>Naphtha (petroleum)</td>
<td>64742-48-9</td>
<td>TWA</td>
<td>400 ppm 1 600 mg/m³</td>
<td>1989-01-19</td>
</tr>
</tbody>
</table>
### 8.2 Exposure controls

**Personal protective equipment**

| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | TWA | 500 ppm 2 000 mg/m³ | 2007-01-01 |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | TWA | 200 mg/m³ | 2010-03-01 |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | TWA | 400 ppm 1 600 mg/m³ | 1989-01-19 |

**Eye protection**: Safety glasses
Hand protection
Material: Solvent-resistant gloves

Remarks:
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- The exact break through time can be obtained from the protective glove producer and this has to be observed.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Recommended preventive skin protection
- Skin should be washed after contact.
- The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection:
- Long sleeved clothing
- Safety shoes
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection:
- Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls
General advice:
- Prevent product from entering drains.
- If the product contaminates rivers and lakes or drains inform respective authorities.
Water : The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance**: Pasty solid
- **Colour**: silver
- **Odour**: characteristic
- **pH**: No data available
- **Freezing point**: No data available
- **Boiling point/boiling range**: 162 °C
- **Flash point**: No data available
- **Bulk density**: No data available
- **Flammability (solid, gas)**: Combustible Solids
- **Auto-flammability**: not auto-flammable
- **Upper explosion limit**: No data available
- **Lower explosion limit**: No data available
- **Vapour pressure**: No data available
- **Density**: 1.3 - 2.0 g/cm³
- **Solubility(ies)**: insoluble
- **Miscibility with water**: immiscible
- **Solubility in other solvents**: No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Flow time : No data available
Explosive properties : Not explosive

9.2 Other information

Self-Accelerating decomposition temperature (SADT) : No data available
Self-heating substances : No data available
Heat of combustion : No data available
Impact sensitivity : No data available
Surface tension : No data available

Conductivity : No data available
Sublimation point : No data available
Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions

Hazardous reactions:
- Reacts with alkalis, acids, halogenes and oxidizing agents.
- Contact with acids and alkalis may release hydrogen.
- Mixture reacts slowly with water resulting in evolution of hydrogen.
- Vapour/air-mixtures are explosive at intense warming.

Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid:
- Do not allow to dry.
- No data available

10.5 Incompatible materials

Materials to avoid:
- Acids
- Bases
- Oxidizing agents
- Highly halogenated compounds

10.6 Hazardous decomposition products

Hazardous decomposition products:
- No data available

Other information:
- No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:
- Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha: 
Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour
   An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified :**
Acute oral toxicity : LD50 Rat: 3 492 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 3 160 mg/kg

**Skin corrosion/irritation**
   No data available

**Serious eye damage/eye irritation**
   No data available

**Respiratory or skin sensitisation**
   No data available

**Carcinogenicity**
   No data available
SECTION 12: Ecological information

12.1 Toxicity

Components:
Solvent naphtha (petroleum), light arom. (64742-95-6) :

Ecotoxicology Assessment
Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
In accordance with local and national regulations.

Contaminated packaging : In accordance with local and national regulations.
SECTION 14: Transport information

14.1 UN number
14.2 Proper shipping name
14.3 Transport hazard class
14.4 Packing group
14.5 Environmental hazards

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
   No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
   REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable
   TA Luft List (Germany): Paragraph 5.2.5:

15.2 Chemical safety assessment

   No data available
SECTION 16: Other information

**Full text of H-Statements**

- **H226**: Flammable liquid and vapour.
- **H227**: Combustible liquid.
- **H228**: Flammable solid.
- **H303**: May be harmful if swallowed.
- **H304**: May be fatal if swallowed and enters airways.
- **H313**: May be harmful in contact with skin.
- **H335**: May cause respiratory irritation.
- **H336**: May cause drowsiness or dizziness.
- **H411**: Toxic to aquatic life with long lasting effects.
- **H412**: Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.