Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

1.1. Product identifier

Proguard CN 200 Part B

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

Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Chesterton International GmbH
Street: Am Lenzenfleck 23
Place: DE-85737 Ismaning GERMANY
Telephone: +49 89 99 65 46 - 0
Fax: +49 89 99 65 46 - 50
E-mail: eu-sds@chesterton.com
E-mail (Contact person): eu-sds@chesterton.com
Internet: www.chesterton.com
Responsible Department: +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1
Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Amines, polyethylenepoly-, triethylenetetramine fraction
m-phenylenebis(methylamine)
2,4,6-tris(dimethylaminomethyl)phenol

Signal word: Danger
Pictograms:

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not inhale dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>90640-67-8</td>
<td>Amines, polyethylenepoly-, triethylenetetramine fraction</td>
<td>25 - &lt; 50 %</td>
<td>292-588-2</td>
<td></td>
<td>01-2119487919-13</td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>10 - &lt; 25 %</td>
<td></td>
<td>01-2119480150-50</td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H412 EUH071</td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>1 - &lt; 5 %</td>
<td>202-013-9</td>
<td></td>
<td>01-2119560597-27</td>
<td>Skin Corr. 1, Skin Sens. 1; H314 H317</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

Further Information
No information available.
SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation
In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.
Do not wash with: Solvents/Thinner

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3. Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

5.3. Advice for firefighters
Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8.
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Provide adequate ventilation.
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
See protective measures under point 7 and 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage
Keep away from:
Food and feedingstuffs
Oxidising agent

Further information on storage conditions
Keep away from:
Frost
Heat
Humidity

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
## DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>90640-67-8</td>
<td>Amines, polyethylene-poly-, triethylenetetramine fraction</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0,54 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>Worker DNEL, acute</td>
<td>inhalation</td>
<td>systemic</td>
<td>5380 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0,57 mg/kg bw/day</td>
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<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>local</td>
<td>0,028 mg/cm²</td>
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<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0,096 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, acute</td>
<td>inhalation</td>
<td>systemic</td>
<td>1600 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0,25 mg/kg bw/day</td>
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<td></td>
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<td>Consumer DNEL, acute</td>
<td>dermal</td>
<td>systemic</td>
<td>8 mg/kg bw/day</td>
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<tr>
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<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
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<tr>
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<td>Consumer DNEL, acute</td>
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<td>1 mg/cm²</td>
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<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>0,14 mg/kg bw/day</td>
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<td></td>
<td>Consumer DNEL, acute</td>
<td>oral</td>
<td>systemic</td>
<td>20 mg/kg bw/day</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0,33 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>local</td>
<td>0,2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>1,2 mg/m³</td>
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</table>
### PNEC values

<table>
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<th>CAS No</th>
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<tbody>
<tr>
<td>90640-67-8</td>
<td>Amines, polyethylenepoly-, triethylenetetramine fraction</td>
<td>Freshwater</td>
<td>0.027 mg/l</td>
</tr>
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<td></td>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td>0.2 mg/l</td>
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<td></td>
<td></td>
<td>Marine water</td>
<td>0.003 mg/l</td>
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<td></td>
<td>Freshwater sediment</td>
<td>8.572 mg/kg</td>
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<td></td>
<td>Marine sediment</td>
<td>0.857 mg/kg</td>
</tr>
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<td></td>
<td></td>
<td>Secondary poisoning</td>
<td>0.18 mg/kg</td>
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<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>0.13 mg/l</td>
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<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>1.25 mg/kg</td>
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<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>Freshwater</td>
<td>0.094 mg/l</td>
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<tr>
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<td></td>
<td>Freshwater (intermittent releases)</td>
<td>0.152 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.009 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>12.4 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>1.24 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>2.44 mg/kg</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Freshwater</td>
<td>0.084 mg/l</td>
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<td>Freshwater (intermittent releases)</td>
<td>0.84 mg/l</td>
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<tr>
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<td></td>
<td>Marine water</td>
<td>0.008 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>0.2 mg/l</td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

**Appropriate engineering controls**
- Provide adequate ventilation as well as local exhaustion at critical locations.

**Protective and hygiene measures**
- Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

**Eye/face protection**
- Suitable eye protection:
- Eye glasses with side protection
- Goggles

**Hand protection**
- Suitable gloves type:
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NBR (Nitrile rubber) EN ISO 374,
Butyl caoutchouc (butyl rubber) EN ISO 374
Wear cotton undermitten if possible.

Skin protection
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Combination filtering device (EN 14387) A-P3
Self-contained respirator (breathing apparatus) (DIN EN 133)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>ref. to label</td>
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<tr>
<td>Odour:</td>
<td>characteristic</td>
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<tr>
<td>pH-Value:</td>
<td>No data available</td>
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</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
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</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>No data available</td>
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<tr>
<td>Sublimation point:</td>
<td>No data available</td>
</tr>
<tr>
<td>Softening point:</td>
<td>No data available</td>
</tr>
<tr>
<td>Pour point:</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>~85 °C</td>
</tr>
</tbody>
</table>

Flammability

Solid: No data available
Gas: No data available

Explosive properties
No information available.

<table>
<thead>
<tr>
<th>Lower explosion limits:</th>
<th>No data available</th>
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</thead>
<tbody>
<tr>
<td>Upper explosion limits:</td>
<td>No data available</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

Solid: No data available
Gas: No data available

Decomposition temperature: No data available

Oxidizing properties
No information available.

Vapour pressure: No data available
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according to Regulation (EC) No 1907/2006

Proguard CN 200 Part B

Revision date: 05.11.2019

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Density (at 23 °C)</td>
<td>~1.0 g/cm³</td>
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<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity / dynamic (at 23 °C)</td>
<td>~700 mPa·s</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 1918.5 mg/kg
### Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>90640-67-8</td>
<td>Amines, polyethylenepoly-, triethylenetetramine fraction</td>
<td>oral</td>
<td>LD50 1861.9 mg/kg</td>
<td>Rat</td>
<td>Study report (1992)</td>
<td>other: EPA FR Vol.50, No. 188, September</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 1465.4 mg/kg</td>
<td>Rabbit</td>
<td>Study report (1993)</td>
<td>OECD Guideline 402</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>oral</td>
<td>LD50 930 mg/kg</td>
<td>Rat</td>
<td>Study report (1973)</td>
<td>OECD Guideline 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 3100 mg/kg</td>
<td>Rat</td>
<td>Study report (1975)</td>
<td>TK 11813 was applied to a shaved area of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE 11 mg/l</td>
<td>Rat</td>
<td>Study report (1975)</td>
<td>TK 11813 was applied to a shaved area of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) aerosol</td>
<td>LC50 1.34 mg/l</td>
<td>Rat</td>
<td>Study report (1975)</td>
<td>TK 11813 was applied to a shaved area of</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>oral</td>
<td>LD50 2169 mg/kg</td>
<td>Rat</td>
<td>Study report (1992)</td>
<td>OECD Guideline 401</td>
</tr>
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</table>

### SECTION 12: Ecological information

#### 12.1. Toxicity
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h] [d] Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>90640-67-8</td>
<td>Amines, polyethylene-etriethylenetetramine fraction</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>330 mg/l</td>
<td>96 h Pimephales promelas REACh Registration Dossier</td>
<td>other: U.S EPA-TSCA, 40 CFR Part 797 14</td>
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<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>20 mg/l</td>
<td>72 h Pseudokirchneriella subcapitata REACh Registration Dossier</td>
<td>OECD Guideline 201</td>
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<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>31,1 mg/l</td>
<td>48 h Daphnia magna REACh Registration Dossier</td>
<td>EU Method C.2</td>
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<tr>
<td></td>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(800 mg/l)</td>
<td>0,5 h Activated sludge, domestic REACh Registration Dossier</td>
<td>other: EEC L133 1988 p 118-122</td>
<td></td>
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<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt; 100 mg/l</td>
<td>96 h Oncorhynchus mykiss REACh Registration Dossier</td>
<td>OECD Guideline 203</td>
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<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>12 mg/l</td>
<td>72 h Desmodesmus subspicatus REACh Registration Dossier</td>
<td>OECD Guideline 201</td>
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<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>15,2 mg/l</td>
<td>48 h Daphnia magna (Big water flea) REACh Registration Dossier</td>
<td>OECD Guideline 211</td>
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<tr>
<td></td>
<td></td>
<td>Algea toxicity</td>
<td>NOEC</td>
<td>10,5 mg/l</td>
<td>3 d Selenastrum capricornutum REACh Registration Dossier</td>
<td>OECD Guideline 209</td>
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<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC</td>
<td>4,7 mg/l</td>
<td>21 d Daphnia magna OECD Guideline 221</td>
<td>OECD Guideline 209</td>
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<td></td>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(&gt; 1000 mg/l)</td>
<td>0,5 h Activated sludge from laboratory wastewater plant</td>
<td>Study report (2004)</td>
<td>OECD Guideline 209</td>
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<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>175 mg/l</td>
<td>96 h Cyprinus carpio Study report (1973)</td>
<td>other: Fish Bioassay Procedure in 1970 e</td>
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<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>84 mg/l</td>
<td>72 h Desmodesmus subspicatus Study report (2004)</td>
<td>OECD Guideline 201</td>
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</table>
12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
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<tr>
<td>90640-67-8</td>
<td>Amines, polyethylene-poly-, triethylenetetramine fraction</td>
<td>-2.9</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>ca. 0.18</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>&gt;= 0.219</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BCF</th>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>3.16</td>
<td>no data</td>
<td>Validated suite of c</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
Dispose of waste according to applicable legislation.

Contaminated packaging
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Safety Data Sheet

generated to Regulation (EC) No 1907/2006

Proguard CN 200 Part B

Revision date: 05.11.2019

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Special Provisions: A3 A803
Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No information available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information
Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
- Amines, polyethylene-oligo-, triethyleneetetramine fraction
- m-phenylenebis(methylamine)
- 2,4,6-tris(dimethylaminomethyl)phenol

SECTION 16: Other information

Changes
This data sheet contains changes from the previous version in section(s): 2,3,8,11.

Abbreviations and acronyms
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- CLP: Classification, labelling and Packaging
- REACH: Registration, Evaluation and Authorization of Chemicals
- GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
- UN: United Nations
- CAS: Chemical Abstracts Service
- DNEL: Derived No Effect Level
- DMEL: Derived Minimal Effect Level
- PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. 1B; H314</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1; H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**Relevant H and EUH statements (number and full text)**

- **H302** Harmful if swallowed.
- **H312** Harmful in contact with skin.
- **H314** Causes severe skin burns and eye damage.
- **H317** May cause an allergic skin reaction.
- **H318** Causes serious eye damage.
- **H332** Harmful if inhaled.
- **H412** Harmful to aquatic life with long lasting effects.
- **EUH071** Corrosive to the respiratory tract.

**Further Information**

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*