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

1.1. Product identifier
323 Schaltgetriebe 01323012A

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

1.3. Details of the supplier of the safety data sheet
Company name: TUNAP Deutschland Vertriebs GmbH & Co. Betriebs KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Fax: +49 (0) 8171/1600 - 40
E-mail: sdb@tunap.com
Internet: www.tunap.com

1.4. Emergency telephone number:
+49 (0) 30 30 686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Indications of danger: Xi - Irritant
R phrases:
Irritating to eyes.
May cause sensitisation by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Aerosol: Aerosol 3
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
Pressurised container: May burst if heated.
May cause an allergic skin reaction.
Causes serious eye damage.
Toxic to aquatic life with long lasting effects.

2.2. Label elements
Hazard components for labelling
Polysulfides, di-tert-butyll
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptylderivs."
Diisododecylphenylphosphit
Triisodecyl phosphite
Phenol, heptyl derivs.
Isodecyl diphenyl phosphite

Signal word: Danger
Pictograms: GHS05-GHS07-GHS09
Hazard statements
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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.
P280 Wear eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of Water and soap..
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.
P314 Get medical advice/attention if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P251 Do not pierce or burn, even after use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
### Hazardous components

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>273-103-3</td>
<td>Polysulfides, di-tart-butyl</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>68937-96-2</td>
<td>R43-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1, Aquatic Chronic 4; H317 H413</td>
<td></td>
</tr>
<tr>
<td>270-128-1</td>
<td>Benzamidine, N-phenyl-,reaction products with 2,4,4-trimethylpentene</td>
<td>3 - &lt; 5 %</td>
</tr>
<tr>
<td>68411-46-1</td>
<td>R52-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3; H412</td>
<td></td>
</tr>
<tr>
<td>272-028-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>3 - &lt; 5 %</td>
</tr>
<tr>
<td>68649-42-3</td>
<td>Xi - Irritant, N - Dangerous for the environment R38-41-51-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411</td>
<td></td>
</tr>
<tr>
<td>931-384-6</td>
<td>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</td>
<td>1 - &lt; 3 %</td>
</tr>
<tr>
<td></td>
<td>Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-43-51-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H318 H317 H411</td>
<td></td>
</tr>
<tr>
<td>01-2119493620-38</td>
<td>(Z)-octadec-9-enylamine</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>112-90-3</td>
<td>C - Corrosive, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-34-37-48/22-50-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, Skin CORR. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. TOX. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H302 H314 H318 H335 H373 H304 H400 H410</td>
<td></td>
</tr>
<tr>
<td>939-460-0</td>
<td>reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptylderivs.&quot;.</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td></td>
<td>Xi - Irritant R38-41-43-52-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H315 H318 H317 H412</td>
<td></td>
</tr>
<tr>
<td>01-2119971727-23</td>
<td>Disododecylphenylphosphit</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>246-998-3</td>
<td>Trisodecyl phosphite</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>25448-25-3</td>
<td>R43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1; H317</td>
<td></td>
</tr>
<tr>
<td>276-743-1</td>
<td>Phenol, heptyl derivs.</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>72624-02-3</td>
<td>C - Corrosive, N - Dangerous for the environment R34-43-50-53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, Skin CORR. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H302 H314 H318 H317 H400 H410</td>
<td></td>
</tr>
<tr>
<td>01-2119972228-30</td>
<td>Isodecyl diphenyl phosphate</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>26544-23-0</td>
<td>R43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1; H317</td>
<td></td>
</tr>
</tbody>
</table>

Revisions: 1.01

GB - EN

Revision date: 14.04.2016
SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation
Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion
Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
The product itself does not burn.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information
Suppress gases/vapours/mists with water spray jet. 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
Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or 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
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Dust must be exhausted directly at the point of origin. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels  
Keep container tightly closed.

Advice on storage compatibility  
Do not store together with: Food and feedingstuffs

Further information on storage conditions  
Protect from frost. Protect against direct sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values  
a no restriction
b End of exposure or shift
c in long-term exposure: after several shifts
d prior to next shift

STEL (EC) : Short Term Exposure Limit  
TWA (EC): time-weighted average

U: Urea
B: Blood

8.2. Exposure controls

Protective and hygiene measures  
Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection  
Suitable eye protection: Tightly sealed safety glasses.  
DIN EN 166

Hand protection  
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min  
Thickness of the glove material 0.45 mm  
DIN EN 374

Skin protection  
Wear suitable protective clothing.

Respiratory protection  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Suitable respiratory protection apparatus: Combination filtering device (EN 14387)  
Filtering device with filter or ventilator filtering device of type: A  
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Physical state:** Aerosol
- **Colour:** red
- **Odour:** mild

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
<td></td>
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<tr>
<td>Melting point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0,91 g/cm³</td>
<td>DIN 51757</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
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</tr>
<tr>
<td>Viscosity / dynamic</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Viscosity / kinematic</td>
<td>1100 mm²/s</td>
<td></td>
</tr>
<tr>
<td>Flow time</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Solvent separation test</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Solvent content</td>
<td>No information available.</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

- **Solid content:** No information available.

- **Density:** Data apply to technical substance.
- **Pressure:** 9,5bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

- No information available.

10.2. Chemical stability

- The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

- Do not expose to temperatures above 50 °C.

10.4. Conditions to avoid

- Heating causes rise in pressure with risk of bursting.
### 10.5. Incompatible materials
No information available.

### 10.6. Hazardous decomposition products
No information available.

**Further information**
No information available.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

- **Toxicokinetics, metabolism and distribution**
  No information available.

- **Acute toxicity**
  Based on available data, the classification criteria are not met.
### Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>68937-96-2</td>
<td>Polysulfides, di-tert-butyl</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
</tr>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td></td>
<td>LC50</td>
<td>&gt;5 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td>68649-42-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>3100 mg/kg</td>
<td>Rat</td>
</tr>
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<td></td>
<td>reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
</tr>
<tr>
<td>112-90-3</td>
<td>(Z)-octadec-9-Enylamine</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>888 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td></td>
<td>LC50</td>
<td>&gt;20 mg/l</td>
<td>Rat</td>
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<tr>
<td>25550-98-5</td>
<td>Diisododecylphenylphosphite</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
</tr>
<tr>
<td>25448-25-3</td>
<td>Triisodecyl phosphate</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>13800</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td></td>
<td>LC50</td>
<td>&gt;12 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td>72624-02-3</td>
<td>Phenol, heptyl derivs.</td>
<td>oral</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td></td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rabbit</td>
</tr>
<tr>
<td>26544-23-0</td>
<td>Isodecyl diphenyl phosphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Polysulfides, di-tert-butyl), (Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), (reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptylderivs.".), (Disododecylphenylphosphit), (Triisodecyl phosphite), (Phenol, heptyl derivs.), (Isodecyl diphenyl phosphite)

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
No indications of human carcinogenicity exist.
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
### 12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0
12.3. Bioaccumulative potential
There are no data available on the mixture itself.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
No information available.

Further information
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products
160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances Classified as hazardous waste.

Waste disposal number of used product
160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging
150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.2
Classification code: 5A
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Transport category: 3
Tunnel restriction code: E

Inland waterways transport (ADN)
14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.2
Classification code: 5A
Special Provisions: 190 327 344 625
Limited quantity: 1 L

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS ((Z)-octadec-9-enylamine))
14.3. Transport hazard class(es): 2.2
14.4. Packing group: -
Hazard label: 2.2
Marine pollutant: yes
Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: 1000 mL
EmS: F-D, S-U

Air transport (ICAO)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, non-flammable
14.3. Transport hazard class(es): 2.2
14.4. Packing group: -
Hazard label: 2.2
Special Provisions: A98 A145 A167 A802
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: (Z)-octadec-9-enylamine)

SECTION 15: Regulatory information

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

EU regulatory information
1999/13/EC (VOC):
EU/CH -

Additional information
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

Additional information
94/69/EC (21st ATP). The benzene content of the product is less than 0.1%. It applies the annotation P. Classification and labeling as carcinogenic is not necessary.
Changes
This data sheet contains changes from the previous version in section(s): 1,2,3,6,8,9,14.

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 concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
WEL (UK): Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
STEL (EC) Short Term Exposure Limit
LC50: Lethal Concentration
EC50: half maximal Effective Concentration
ErC50: means EC50 in terms of reduction of growth rate

Relevant R phrases (number and full text)
22 Harmful if swallowed.
34 Causes burns.
36 Irritating to eyes.
37 Irritating to respiratory system.
38 Irritating to skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50 Very toxic to aquatic organisms.
51 Toxic to aquatic organisms.
52 Harmful to aquatic organisms.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.

Relevant H and EUH statements (number and full text)
H229 Pressurised container: May burst if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Further Information
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The
information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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