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

1.1 Product identifier
   Trade name : SILVERSHINE P-1000

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
   Company : ECKART GmbH
   Guentersthal 4
   91235 Hartenstein
   Telephone : +499152770
   Telefax : +499152777008
   E-mail address : msds.eckart@altana.com
   Responsible/issuing person

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

2.1 Classification of the substance or mixture

   Classification (REGULATION (EC) No 1272/2008)
   Flammable solids, Category 1 : H228: Flammable solid.
   Chronic aquatic toxicity, Category 3 : H412: Harmful to aquatic life with long lasting effects.

   Classification (67/548/EEC, 1999/45/EC)
   Highly flammable : R11: Highly flammable.
   R67: Vapours may cause drowsiness and dizziness.
   Dangerous for the environment : R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H228 Flammable solid.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
- Prevention:
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P273 Avoid release to the environment.
- Response:
  - P370 + P378 In case of fire: Use for extinction: Dry sand.
- Disposal:
  - P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>265-150-3</td>
<td></td>
<td>Xn; R65</td>
<td>Asp. Tox. 1; H304</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>265-199-0</td>
<td>01-2119455851-35</td>
<td>Xn; R65, Xi; R37, N; R51/53</td>
<td>Flam. Liq. 3; H226, Asp. Tox. 1; H304, STOT SE 3; H335</td>
<td>&gt;= 10 - &lt; 15</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
- Move out of dangerous area.
- Move the victim to fresh air.
- Do not leave the victim unattended.

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

In case of skin contact:
- If on skin, rinse well with water.
- If on clothes, remove clothes.
- Wash off immediately with soap and plenty of water.

In case of eye contact:
- Flush eyes with water as a precaution.

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.  

Immediately flush eye(s) with plenty of water.  

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  

Symptoms  
: No information available.  

Risks  
: No information available.  

4.3 Indication of any immediate medical attention and special treatment needed  

Treatment  
: No information available.  

SECTION 5: Firefighting measures  

5.1 Extinguishing media  

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

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

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  
: Wear self contained breathing apparatus for fire fighting 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:
- Avoid dust formation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.
- Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- 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:
- Do not flush with water.
- Keep in suitable, closed containers for disposal.
- Use mechanical handling equipment.
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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:
- For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:
- Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures:
- Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage:
- No smoking. Keep container tightly closed in a dry and well-
areas and containers

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

Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Further information on storage conditions

: Protect from humidity and water.

Advice on common storage

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

German storage class

: 4.1B, Flammable solid hazardous materials

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

<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>2-methoxy-1-methylethyl acetate</td>
<td>108-65-6</td>
<td>TWA</td>
<td>50 ppm</td>
<td>275 mg/m³</td>
<td>2000-06-16</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Identifies the possibility of significant uptake through the skin</td>
<td>Indicative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-methoxy-1-methylethyl acetate</td>
<td>108-65-6</td>
<td>STEL</td>
<td>100 ppm</td>
<td>550 mg/m³</td>
<td>2000-06-16</td>
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</tbody>
</table>
### Further Information

Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

| aluminium    | 7429-90-5 | TWA (Respirable) | 4 mg/m³           | 2011-12-01 | GB EH40 |

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH...
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</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
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<tr>
<td></td>
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<td>1,210 mg/m3</td>
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<tr>
<td>Further information</td>
<td>Indicative</td>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
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### SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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**SILVERSHONE P-1000**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>STEL</th>
<th>2005-04-06</th>
<th>GB EH40</th>
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</thead>
<tbody>
<tr>
<td>acetone (67-64-1)</td>
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**DNEL:**

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<th>CAS Number</th>
<th>2005-04-06</th>
<th>GB EH40</th>
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</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
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</tr>
<tr>
<td>End Use: Workers</td>
<td>Exposure routes: Skin contact</td>
<td>Potential health effects: long term – systemic effects</td>
<td>Value: 300 mg/kg</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
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<tr>
<td>End Use: Consumers</td>
<td>Exposure routes: Ingestion</td>
<td>Potential health effects: long term – systemic effects</td>
<td>Value: 300 mg/kg</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
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<td>End Use: Consumers</td>
<td>Exposure routes: Inhalation</td>
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<tr>
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<td>Exposure routes: Ingestion</td>
<td>Potential health effects: long term – systemic effects</td>
<td>Value: 11 mg/kg</td>
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<td>Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
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<tr>
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<td>Exposure routes: Inhalation</td>
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<td>Value: 32 mg/m³</td>
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<tr>
<td>acetone (67-64-1)</td>
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<tr>
<td>End Use: Workers</td>
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</table>
**SILVERSHINE P-1000**

<table>
<thead>
<tr>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>DNEL</th>
<th>End Use</th>
<th>Value</th>
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<tr>
<td>Skin contact</td>
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<td>186 mg/kg</td>
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<td>acetone (67-64-1)</td>
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<td>Inhalation</td>
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<tr>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
<td>Consumers</td>
<td>acetone (67-64-1)</td>
<td>acetone (67-64-1)</td>
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<tr>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>200 mg/m³</td>
<td>Workers</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
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<tr>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>275 mg/m³</td>
<td>Consumers</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.67 mg/kg</td>
<td>Consumers</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
<td>2-methoxy-1-methylethyl acetate (108-65-6)</td>
</tr>
</tbody>
</table>
### Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 54.8 mg/kg

### DNEL:
- **2-methoxy-1-methylethyl acetate (108-65-6)**
  - End Use: Consumers
  - Exposure routes: Inhalation
  - Potential health effects: long term – systemic effects
  - Value: 33 mg/m³

### PNEC:
- **Acetone (67-64-1)**
  - **Soil**
    - Value: 29.5 mg/kg
  - **Fresh water**
    - Value: 10.6 mg/l
  - **Fresh water sediment**
    - Value: 30.4 mg/kg
  - **Marine water**
    - Value: 1.06 mg/l
  - **Marine sediment**
    - Value: 3.04 mg/kg

### PNEC:
- **2-methoxy-1-methylethyl acetate (108-65-6)**
  - **Soil**
    - Value: 0.29 mg/kg
  - **Fresh water**
    - Value: 0.635 mg/l
  - **Fresh water sediment**
    - Value: 3.29 mg/kg
  - **Marine water**
    - Value: 0.0635 mg/l
  - **Marine sediment**
    - Value: 3.29 mg/kg
acetate (108-65-6) Value: 0.329 mg/kg

**PNEC:**
- 2-methoxy-1-methylethyl acetate (108-65-6) STP Value: 100 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

**Eye protection**
- Eye wash bottle with pure water
- Goggles

**Hand protection**
- Material: Solvent-resistant gloves (butyl-rubber)

**Remarks**
- The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- 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**
- 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. Prevent further leakage or spillage if safe to do so. 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: odourless
pH: no data available
Freezing point: no data available
Boiling point/boiling range: 146 °C
Flash point: 40 °C

Bulk density: no data available
Flammability (solid, gas): no data available
Auto-flammability: no data available
Upper explosion limit: no data available
Lower explosion limit: no data available
Vapour pressure: no data available
Density: 1.4 g/cm³
Water solubility: no data available
Solubility in other solvents: no data available
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: 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: Stable under recommended storage conditions.

10.4 Conditions to avoid
Conditions to avoid: Heat, flames and sparks.
Do not allow evaporation to dryness.

10.5 Incompatible materials
Materials to avoid: no data available

10.6 Hazardous decomposition products
Other information: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity

Components:
7429-90-5:
Acute inhalation toxicity

**LC50 rat: > 5 mg/l**

**Exposure time:** 4 h

**Test atmosphere:** dust/mist

**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

**Toxicity to reproduction/fertility**

no data available

**Reprod.Tox./Development/Teratogenicity**

no data available

**STOT - single exposure**

no data available

**STOT - repeated exposure**

no data available

**Aspiration toxicity**

no data available

**Further information**

Product
SECTION 12: Ecological information

12.1 Toxicity

no data available

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

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances
13.1 Waste treatment methods

Product:
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging:
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

<table>
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<tr>
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<th>IMDG</th>
<th>IATA</th>
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<tbody>
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14.2 Proper shipping name

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<th>IATA</th>
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<tr>
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<td>FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)</td>
<td>FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)</td>
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</tbody>
</table>

14.3 Transport hazard class

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<tbody>
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14.4 Packing group

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<tr>
<td>Packaging group</td>
</tr>
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<td>Classification Code</td>
</tr>
<tr>
<td>Hazard identification No</td>
</tr>
<tr>
<td>Labels</td>
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</table>
Tunnel restriction code : (E)

**IMDG**
Packaging group : II
Labels : 4.1
EmS Number : F-G, S-G

**IATA**
Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445
Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

14.5 Environmental hazards
**IMDG** :

14.6 Special precautions for user
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

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**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Water contaminating class (Germany) : WGK 2 water endangering

15.2 Chemical Safety Assessment

no data available
SECTION 16: Other information

Full text of R-Phrases

R10  Flammable.
R11  Highly flammable.
R36  Irritating to eyes.
R37  Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61  May cause harm to the unborn child.
R65  Harmful: may cause lung damage if swallowed.

Full text of H-Statements

H225  Highly flammable liquid and vapour.
H226  Flammable liquid and vapour.
H228  Flammable solid.
H304  May be fatal if swallowed and enters airways.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.
H336  May cause drowsiness or dizziness.
H360D  May damage the unborn child.
H411  Toxic to aquatic life with long lasting effects.

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