1 Identification

- **Product name:** Mold Release Spray (Cold Mounting)
- **Part number:** 200-10010
- **Application of the substance / the mixture** Releasing agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  Allied High Tech Products Inc.
  2376 East Pacifica Place
  USA-RANCHO DOMINGUEZ, CA 90220
  USA
  info@alliedhightech.com
- **Information department:** Product safety department
- **Emergency telephone number:**
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

- **Classification of the substance or mixture**

  - GHS02 Flame
    Flam. Aerosol 1 H222 Extremely flammable aerosol.

  - GHS08 Health hazard
    Muta. 1B H340 May cause genetic defects.
    Carc. 1B H350 May cause cancer.
    Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

  - GHS09 Environment
    Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- GHS07

(Contd. on page 2)

US
Product name: Mold Release Spray (Cold Mounting)

Skint: Irrit. 2  H315 Causes skin irritation.
Eye Irrit. 2A  H319 Causes serious eye irritation.
STOT SE 3     H335 May cause respiratory irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

· Label elements
· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms

GHS02 GHS07 GHS08 GHS09

· Signal word Danger
· Hazard-determining components of labeling:
Naphtha (petroleum), hydrotreated heavy
di-n-butyl ether
octane
· Hazard statements
Extremely flammable aerosol.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

· Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
If INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

**NFPA ratings (scale 0 - 4)**

- Health = 2
- Fire = 0
- Reactivity = 3

**HMIS-ratings (scale 0 - 4)**

- Health = *2
- Fire = 0
- Reactivity = 3

**Other hazards**

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

#### Hazardous Components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Percentage</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9</td>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>50-100%</td>
<td>Mut. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304; Flam. Liq. 4, H227</td>
</tr>
<tr>
<td>142-96-1</td>
<td>di-n-butyl ether</td>
<td>10-25%</td>
<td>Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>10-25%</td>
<td>Flam. Gas 1, H220; Press. Gas, H280</td>
</tr>
<tr>
<td>111-65-9</td>
<td>octane</td>
<td>2.5-10%</td>
<td>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336</td>
</tr>
</tbody>
</table>

#### Non-hazardous Components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>90622-56-3</td>
<td>Alkanes, C7-10-iso-</td>
<td>2.5-10%</td>
</tr>
<tr>
<td></td>
<td>Proprietary Ingredient</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

**Description of first aid measures**

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
Product name: Mold Release Spray (Cold Mounting)

· Information for doctor:
  · Most important symptoms and effects, both acute and delayed
    Headache
    Dizziness
    Unconsciousness
    Nausea
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  · Special hazards arising from the substance or mixture: No further relevant information available.

· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:
  Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.

· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

  · PAC-1:
    64742-48-9 Naphtha (petroleum), hydrotreated heavy 350 mg/m³
    142-96-1 di-n-butyl ether 2.6 ppm
    74-98-6 propane 5500* ppm
    111-65-9 octane 230 ppm

  · PAC-2:
    64742-48-9 Naphtha (petroleum), hydrotreated heavy 1,800 mg/m³
    142-96-1 di-n-butyl ether 29 ppm
    74-98-6 propane 17000** ppm
    111-65-9 octane 385 ppm

  · PAC-3:
    64742-48-9 Naphtha (petroleum), hydrotreated heavy 40,000 mg/m³
    142-96-1 di-n-butyl ether 170 ppm
    74-98-6 propane 33000*** ppm

(Contd. on page 5)
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111-65-9 octane 5000** ppm

7 Handling and storage

· Handling:
· Precautions for safe handling: No special precautions are necessary if used correctly.
· Information about protection against explosions and fires:
  Do not spray on a naked flame or any incandescent material.
  Keep ignition sources away - Do not smoke.
· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles:
  Store at temperatures not exceeding 48.8°C.
  Observe official regulations on storing packagings with pressurized containers.
· Information about storage in one common storage facility:
  Not required.
· Further information about storage conditions:
  Keep receptacle tightly sealed.
  Store receptacle in a well ventilated area.
· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.
· Control parameters
· Components with limit values that require monitoring at the workplace:
  The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>PEL Short-term value</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9 Naphtha (petroleum), hydrotreated heavy</td>
<td>600 mg/m³, 100 ppm</td>
<td>300 mg/m³, 50 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>1800 mg/m³, 1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>111-65-9 octane</td>
<td>2350 mg/m³, 500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

· Additional information:
  The lists that were valid during the creation were used as basis.
· Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
Product name: Mold Release Spray (Cold Mounting)

Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
· Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
· Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
  · Appearance:
    Form: Aerosol
    Color: Colorless
  · Odor: Mild
  · Odor threshold: Not determined.
  · pH-value: Not determined.
· Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: Not applicable, as aerosol.
· Flash point: Not applicable, as aerosol.
· Flammability (solid, gaseous): Not applicable.
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Not determined.
· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.
· Vapor pressure at 20 °C (68 °F): 2,412 hPa (1,809.1 mm Hg)
Product name: Mold Release Spray (Cold Mounting)

- Density: Not determined.
- Relative density: Not determined.
- Vapor density: 3.85
- Specific gravity: 0.74
- Evaporation rate at 20 °C (68 °F): 0.43 (Ether = 1)

- Solubility in / Miscibility with Water: Slightly soluble.
- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

- Solvent content:
  Organic solvents: 37.1 %
  VOC content: 37.14 %
  371.4 g/l / 3.10 lb/gl

- Solids content: 5.7 %
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid
  Keep away from oxidising agents and acidic substances.
  Keep away from alkaline solutions.
  Keep away from heat.
  Keep away from open flames. - No smoking.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Hydrocarbons
  Ammonia

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    ATE (Acute Toxicity Estimate)
    | Type   | LD50   | LC50/4 h |
    |--------|--------|----------|
    | Dermal | >4,350 mg/kg (rab) | 3,422 mg/l (rat) |

64742-48-9 Naphtha (petroleum), hydrotreated heavy

<table>
<thead>
<tr>
<th>Type</th>
<th>LD50</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;5,000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;3,000 mg/kg (rab)</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 8)
### 47.0

<table>
<thead>
<tr>
<th>142-96-1 di-n-butyl ether</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>7,400 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>10,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>111-65-9 octane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalative LC50/4 h</td>
</tr>
<tr>
<td>118 mg/l (rat)</td>
</tr>
</tbody>
</table>

- **Primary chemical irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    - The product can cause inheritable damage.
    - This material contains Hydrotreated heavy naphtha which may cause cancer - Carc 1B and may cause genetic defects - Muta 1B

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Behavior in environmental systems:**
    - **Bioaccumulative potential** No further relevant information available.
    - **Mobility in soil** No further relevant information available.
  - **Ecotoxicological effects:**
    - **Remark:** Toxic for fish
  - **Additional ecological information:**
    - **General notes:**
      - Water hazard class 2 (Self-assessment): hazardous for water
      - Do not allow product to reach ground water, water course or sewage system.
      - Danger to drinking water if even small quantities leak into the ground.
      - Also poisonous for fish and plankton in water bodies.
      - Toxic for aquatic organisms
    - **Results of PBT and vPvB assessment**
      - **PBT:** Not applicable.
      - **vPvB:** Not applicable.
  - **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Contact waste processors for recycling information.
**Product name:** Mold Release Spray (Cold Mounting)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<table>
<thead>
<tr>
<th>· <strong>UN-Number</strong></th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>DOT, IMDG, IATA</strong></td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td>· <strong>DOT proper shipping name</strong></td>
<td>AEROSOLS (OCTANES), MARINE POLLUTANT</td>
</tr>
<tr>
<td>· <strong>IMDG proper shipping name</strong></td>
<td>AEROSOLS, flammable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>Transport hazard class(es)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>DOT</strong></td>
</tr>
<tr>
<td>· <strong>Class</strong></td>
</tr>
<tr>
<td>· <strong>Label</strong></td>
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<table>
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<tr>
<th>· <strong>IMDG</strong></th>
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<td>· <strong>Label</strong></td>
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<tr>
<th>· <strong>IATA</strong></th>
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<tbody>
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<td>· <strong>Class</strong></td>
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<tr>
<td>· <strong>Label</strong></td>
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<thead>
<tr>
<th>· <strong>Packing group</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>DOT, IMDG, IATA</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>Environmental hazards:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Marine pollutant:</strong></td>
</tr>
<tr>
<td>· <strong>Yes</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>Special precautions for user</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Warning:</strong> Gases</td>
</tr>
<tr>
<td>· <strong>Danger code (Kemler):</strong></td>
</tr>
<tr>
<td>· <strong>EMS Number:</strong></td>
</tr>
<tr>
<td>· <strong>F-D,S-U</strong></td>
</tr>
</tbody>
</table>


47.0

- Stowage Code
  SW1 Protected from sources of heat.
  SW22 For AEROSOLS with a maximum capacity of 1 litre:
  Category A. For AEROSOLS with a capacity above 1 litre:
  Category B. For WASTE AEROSOLS: Category C, Clear of living
  quarters.

- Segregation Code
  SG69 For AEROSOLS with a maximum capacity of 1 litre:
  Segregation as for class 9. Slow "separated from" class 1 except for
  division 1.4. For AEROSOLS with a capacity above 1 litre:
  Segregation as for the appropriate subdivision of class 2. For
  WASTE AEROSOLS: Segregation as for the appropriate subdivision
  of class 2.

- Transport in bulk according to Annex II of
  MARPOL 73/78 and the IBC Code
  Not applicable.

- Transport/Additional information:
  - DOT
    - Quantity limitations
      On passenger aircraft/rail: 75 kg
      On cargo aircraft only: 150 kg
  - IMDG
    - Limited quantities (LQ) 1L
    - Excepted quantities (EQ) Code: E0
      Not permitted as Excepted Quantity
  - UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    - Section 313 (Specific toxic chemical listings):
      None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    64742-48-9 Naphtha (petroleum), hydrotreated heavy
    142-96-1 di-n-butyl ether
    74-98-6 propane
    111-65-9 octane
  - TSCA new (21st Century Act) (Substances not listed)
    90622-56-3 Alkanes, C7-10-iso-
    Proprietary Ingredient
  - Proposition 65
    - Chemicals known to cause cancer:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients is listed.
Product name: Mold Release Spray (Cold Mounting)

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

- National regulations:
  - Additional classification according to Decree on Hazardous Materials:
    Carcinogenic hazardous material group III (dangerous).
  - Information about limitation of use:
    Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environment protection department.
- Contact: Kim Dermit
- Date of preparation / last revision 06/14/2018 /
- 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)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Flam. Gas 1: Flammable gases – Category 1
  - Flam. Aerosol 1: Aerosols – Category 1
  - Press. Gas: Gases under pressure – Compressed gas
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Flam. Liq. 4: Flammable liquids – Category 4

(Contd. on page 12)
### Product name: Mold Release Spray (Cold Mounting)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation – Category 2</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation – Category 2A</td>
</tr>
<tr>
<td>Muta. 1B</td>
<td>Germ cell mutagenicity – Category 1B</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity – Category 1B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) – Category 3</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard – Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - acute aquatic hazard – Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - acute aquatic hazard – Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - long-term aquatic hazard – Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - long-term aquatic hazard – Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</td>
</tr>
</tbody>
</table>