# Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Toltrazuril</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product ID</strong></td>
<td>T5946</td>
</tr>
<tr>
<td><strong>Chemical Name (Synonyms)</strong></td>
<td>Baycox; Bay Vi 9142</td>
</tr>
<tr>
<td><strong>Supplier</strong></td>
<td>LKT Laboratories, Inc</td>
</tr>
<tr>
<td></td>
<td>545 Phalen Blvd.</td>
</tr>
<tr>
<td></td>
<td>St. Paul, MN 55130 USA</td>
</tr>
<tr>
<td></td>
<td>Ph: 651-644-8424 Fax: 651-644-8357</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.lktlabs.com">www.lktlabs.com</a> - <a href="mailto:getinfo@lktlabs.com">getinfo@lktlabs.com</a></td>
</tr>
<tr>
<td><strong>Emergency Phone #</strong></td>
<td>1-800-424-9300</td>
</tr>
</tbody>
</table>

# Section 2. Hazards Identification

| **GHS Classification** | Acute aquatic toxicity (Category 1), H400 |
|                       | Chronic aquatic toxicity (Category 1), H410 |

## GHS Label elements including precautionary statements

<table>
<thead>
<tr>
<th><strong>Pictogram</strong></th>
<th><img src="image" alt="Pictogram" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word</strong></td>
<td>Warning</td>
</tr>
<tr>
<td><strong>Hazard and precautionary statements</strong></td>
<td>Hazard statement H410 - Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td></td>
<td>Precautionary statements P273 - Avoid release to the environment. P391 - Collect spillage. P501 - Dispose of contents/container to an approved waste disposal plant.</td>
</tr>
</tbody>
</table>

## HMIS Classification

| **Health hazard:** | 0 |
| **Chronic health hazard:** | * |
| **Flammability:** | 0 |
| **Physical hazard:** | 0 |

## NFPA Rating

| **Health hazard:** | 0 |
| **Fire hazard:** | 0 |
| **Reactivity hazard:** | 0 |

## Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. May cause skin irritation. Eyes - May cause eye irritation.
Ingestion - May be harmful if swallowed.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Formula</th>
<th>Formula Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_{18}H_{14}F_{3}N_{3}O_{4}S</td>
<td>425.38</td>
<td></td>
</tr>
<tr>
<td>CAS No.</td>
<td>69004-03-1</td>
<td></td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact
Flush eyes with water as a precaution.

Skin Contact
Wash off with soap and plenty of water. Consult a physician.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available

Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemicals or carbon dioxide.

Firefighting Procedures
Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
Not available.

Section 6. Accidental Release Measures

Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature. Ambient

Hazardous Decomposition
Not available.

Other Remarks
Protect from light. Store in a dry place.
Section 8. Exposure Controls / Personal Protection

**Personal protective equipment**

**EXPOSURE CONTROLS**
Contains no substances with occupational exposure limit value.
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**PERSONAL PROTECTIVE EQUIPMENT**
Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid.</td>
<td>White crystal powder.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>194°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>log Pow: 4.18 at 23°C</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Section 10. Stability and Reactivity

**Stability**
Stable under recommended storage conditions.

**Materials To Avoid**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Not available.
Section 11. Toxicological Information

**Oral LD50**
- Rat - female - 3,375 mg/kg.
- Rat - male - 2,200 mg/kg.

**Inhalation LC50**
- Rat - 4 h-> 157 mg/m3.

**Dermal LD50**
- Rat - > 5,000 mg/kg.

**Other information on acute toxicity**
- Not available.

**Skin corrosion/irritation**
- Not available.

**Serious eye damage/irritation**
- Not available.

**Respiratory or skin sensitization**
- Not available.

**Germ cell mutagenicity**
- Not available.

**Reproductive Toxicity**
- Not available.

**Aspiration Hazard**
- Not available.

**Synergistic effects**
- Not available.

**Specific organ toxicity**
- single exposure (GHS)
  - Not available.
- repeated exposure (GHS)
  - Not available.

**Additional Information**
- RTECS: Not available.

**Potential Health Effects**
- Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
- Skin - May be harmful if absorbed through skin. May cause skin irritation.
- Eyes - May cause eye irritation.
- Ingestion - May be harmful if swallowed.

**Carcinogenicity**
- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

**Toxicity**
- Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 0.44 mg/l - 96.0h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 2mg/l - 48 h.

**Mobility in soil**
- Not available.

**PBT and vPvB assessment**
- Not available as chemical safety assessment not required/ not
Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA UN number: 3077 Class: 9 Packing Group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Toltrazuril)

IMDG UN number: 3077 Class: 9 Packing Group: III EMS No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Toltrazuril)
Marine pollutant: Marine pollutant

Further Information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods>5L for liquids or >5kg for solids.

Section 15. Regulatory Information

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA Hazards.

Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Toltrazuril CAS No. 69004-03-1 Revision Date:

New Jersey Right To Know Components Toltrazuril CAS No. 69004-03-1 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.
For emergencies in the USA, call CHEMTREC 800-424-9300