Section 1. Product and Company Identification

Product Name: Tozastertib
Product ID: T5996
Chemical Name (Synonyms): VX680, MK0457
Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lkltlabs.com
Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification: Not a dangerous substance according to GHS

GHS Label elements including precautionary statements

Pictogram:

Signal word: Warning

Hazard and precautionary statements:
The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

May be harmful by inhalation, ingestion, or absorption through skin.

Exposure may result in hypertension, rash/skin reaction, diarrhea, fatigue, alopecia (hair loss), anorexia (loss of appetite), and nausea/vomiting.

HMIS Classification: Not available.

NFPA Rating: Not available.

Potential Health Effects:

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

Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C23H28N8O8</td>
<td>464.59</td>
<td>639089-54-6</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice

Eye Contact
Remove contact lenses. Flush with water for at least 15 minutes and seek medical attention immediately.

Skin Contact
Wash with soap and water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before use.

Inhalation
Remove from exposure and provide respiration support if necessary. Seek medical attention.

Ingestion
Rinse mouth with water. Contact a physician or poison control immediately.

Section 5. Firefighting Measures

Flash Point
Not available.

Extinguishing Media
Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting Procedures
Wear self-contained breathing apparatus and protective clothing.

Unusual Fire Hazards
May emit toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions
Do not let product enter drains.

Methods and materials for containment and cleanup
Use appropriate tools to collect material and dispose of in waste container. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

Section 7. Handling and Storage

Handling
Wear gloves, goggles, and lab coat when handling this material. Use in a well ventilated area. Use only in a chemical fume hood. Wash thoroughly after handling material.

Storage Conditions
Store in a cold, dry place in a tightly closed container. Recommended storage temperature: Ambient

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Other Remarks
None
Section 8. Exposure Controls/Personal Protection

Personal protective equipment
Contains no substances with occupational exposure limit values.

Respiratory Protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

Eye Protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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 to pale yellow</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Volatility</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>245-260 ºC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility</th>
<th>pH</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO at 100 mg/mL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Flash Point     | Ignition temperature | Not available. |
|-----------------|                      |                |
| Not available.  | Autoignition temperature | Not available. |

<table>
<thead>
<tr>
<th>Lower explosion limit</th>
<th>Upper explosion limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Water solubility</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative vapor density</th>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

Stability
Stable if stored as directed

Materials To Avoid
Keep away from heat and strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides.
## Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oral LC50</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other information on acute toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific organ toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific organ toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Not available.</td>
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<tr>
<td>Synergistic effects</td>
<td>Not available.</td>
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<tr>
<td>Additional Information</td>
<td>RTECS: Not available</td>
</tr>
</tbody>
</table>

### Potential Health Effects
- **Inhalation**: May be harmful if inhaled. Causes respiratory tract irritation.
- **Skin**: May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes**: Causes 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Toxicity</td>
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<tr>
<td>Mobility in soil</td>
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</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Persistence and degradability Not available. Other adverse effects Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state and local regulations.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not Dangerous Goods

IMDG Not Dangerous Goods

Further Information

Section 15. Regulatory Information

Reach No.

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

SARA 313 Components SARA 313: 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 Tozasertib CAS #: 639089-54-6 Revision Date:

New Jersey Right To Know Components Tozasertib CAS #: 639089-54-6 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to the 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.