Section 1. Product and Company Identification

Product Name: Temozolomide
Product ID: T1849
Chemical Name (Synonyms): Methazolastone; Temodal; Temodar
Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com

Section 2. Hazards Identification

GHS Classification
Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Germ cell mutagenicity (Category 1B), H340
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Pictogram

Signal word
Danger

Hazard and precautionary statements
Hazard statements
H302 - Harmful if swallowed.  H340 - May cause genetic defects.
H315 - Causes skin irritation.  H350 - May cause cancer.
H319 - Causes serious eye irritation.  H360 - May damage fertility or the unborn child.
H335 - May cause respiratory irritation.

Precautionary statements
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fumes, gas, mist, vapors and spray.
P264 - Wash skin thoroughly after handling.
P267 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection and face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - Rinse mouth.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P340 - Take off contaminated clothing and wash before reuse.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification
Health hazard: 2
Chronic health hazard: *
Flammability: 0
Physical hazard: 0

NFPA Rating
Health hazard: 2
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. Causes skin irritation.
Eyes: Causes serious eye irritation.
Ingestion: Acute toxicity. Harmful if swallowed.
Germ cell mutagenicity: May cause genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: May damage fertility or the unborn child.

## 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>C₆H₆N₆O₂</td>
<td>194.15</td>
<td>85622-93-1</td>
</tr>
</tbody>
</table>

## Section 4. First Aid Measures

### General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### Eye Contact
Flush eyes with plenty of water for at least 15 minutes and consult a physician.

### 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 of water.

## Section 5. Firefighting Measures

### Flash Point
Not available.

### Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

### Firefighting Procedures
Wear self-contained breathing apparatus and protective clothing for fire fighting.

### Unusual Fire Hazards
Carbon oxides and nitrogen oxides (NOx).

## Section 6. Accidental Release Measures

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

### Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleanup
Avoid raising dust. Sweep up and shovel and store in a suitable, closed container.

## Section 7. Handling and Storage

### Handling
Wear gloves, goggles, and lab coat when handling this material. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Use in a well-ventilated area.

### Storage Conditions
Store in a cool, well-ventilated, dry place in a tightly closed container. Recommended storage temperature: -20°C.

### Hazardous Decomposition Products
Not available.

### Other Remarks
None.
### Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**: Contains no substances with occupational exposure limit values. Wash hands before breaks and at the end of workday.

**PERSONAL PROTECTION**

**Eye/face protection**: Safety glasses with side-shields conforming to EN166. 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. Full and splash contact: Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 minutes.

**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. Control of environment.

**Respiratory protection**: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>A white to an almost slightly pink crystalline powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting Point</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>212°C (dec.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in DMSO (39mg/mL). Ethanol&lt; (1mg/1mL).</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Ignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Water solubility</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in water to (5mg/mL).</td>
<td></td>
</tr>
</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 under recommended storage conditions.

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

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

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Other information on acute toxicity</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Presumed human reproductive toxicant.</td>
<td></td>
</tr>
<tr>
<td>Specific organ toxicity single exposure (GHS)</td>
<td>Inhalation - May cause respiratory irritation.</td>
<td></td>
</tr>
<tr>
<td>Specific organ toxicity repeated exposure (GHS)</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. The preceding data was determined using Quantitative Structure Activity Relationship modeling.</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>In vivo tests showed mutagenic effects: mouse: leukocyte, DNA damage/ human: leukocyte, DNA damage.</td>
<td></td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Synergistic effects</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Additional Information</td>
<td>RTECS: NJ5927050</td>
<td></td>
</tr>
<tr>
<td>Potential Health Effects</td>
<td>Inhination: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. Causes skin irritation. Ingestion: Acute toxicity. Harmful if swallowed. Germ cell mutagenicity: May cause genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: May damage fertility or the unborn child.</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

# Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility in soil</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>PBT/vPvB assessment not available as chemical safety assessment not required/not</td>
<td></td>
</tr>
</tbody>
</table>
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: Not dangerous goods.
- IMDG: Not dangerous goods.

Section 15. Regulatory Information

- SARA 302 Components: No chemicals in the 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: Acute health hazard, chronic health hazard.

- Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.
- Pennsylvania Right To Know Components: Temozolomide CAS #: 85622-93-1 Revision Date:
- New Jersey Right To Know Components: Temozolomide CAS #: 85622-93-1 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.