GHS Label elements including precautionary statements

**Pictogram**

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard and precautionary statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning</td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H411 - Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td></td>
<td>P264 - Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td></td>
<td>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</td>
</tr>
<tr>
<td></td>
<td>P273 - Avoid release to the environment</td>
</tr>
<tr>
<td></td>
<td>P305 + 351 + 338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td></td>
<td>P337 + 313 - If eye irritation persists, get medical advice/attention.</td>
</tr>
<tr>
<td></td>
<td>P391 - Collect spillage.</td>
</tr>
</tbody>
</table>

**Section 2. Hazards Identification**

**GHS Classification**
- Serious Eye Damage/Eye Irritation (Category 2)
- Aquatic Toxicity, Chronic (Category 2)

**Section 1. Product and Company Identification**

- **Product Name**: Ticagrelor
- **Product ID**: T3200
- **Chemical Name (Synonyms)**: AZD-6140
- **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
- **Emergency Phone #**: 1-800-424-9300

**HMIS Classification**
- Health hazard: 0
- 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.
- Skin: May be harmful if absorbed through skin.
- Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

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### Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C_{23}H_{28}F_{2}N_{6}O_{4}S</td>
<td>522.57</td>
</tr>
<tr>
<td>CAS No.</td>
<td>274693-27-5</td>
<td>EC No.</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 water as a precaution.

**Skin Contact**
Wash off with soap and plenty of water.

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

**Ingestion**
Never give anything by mouth to an unconscious person. Rise mouth with water.

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### Section 5. Firefighting Measures

**Flash Point**
Not available.

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

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

**Unusual Fire Hazards**
Carbon oxides, nitrogen oxides (NOx) and sulfur oxides.

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### Section 6. Accidental Release Measures

**Personal Precautions**
Avoid breathing vapors, mist or gas.

**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**
Use appropriate tools to collect material and dispose of in waste container. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

**Handling**
Normal measures for preventive fire protection.

**Storage Conditions**
Store in a dry and well-ventilated place in a tightly closed container. May be stored at ambient temperatures.

**Hazardous Decomposition Products**
Not available.

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

Personal protective equipment EXPOSURE CONTROLS
Contains no substances with occupational exposure limit values.
General industrial hygiene practice.

PERSONAL PROTECTION
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: Impervious clothing. 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 not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State Solid.
Color White to off white.
Boiling Point Not available.
Volatility Not available.
Melting Point Not available.
Density Not available.
Solubility Not available.
P H Not available.
Flash Point Not available.
Ignition temperature Not available.
Lower explosion limit Not available.
Autoignition temperature Not available.
Upper explosion limit Not available.
Vapor pressure Not available.
Water solubility Not available.
Odor Not available.
Partition coefficient: n-octanol/water Not available.
Odor Threshold Not available.
Relative vapor density Not available.
Evaporation rate Not available.

Section 10. Stability and Reactivity

Stability Stable under recommended storage conditions for 4 years. Avoid prolonged contact with moisture and freeze thaw cycles.

Materials To Avoid Not available.

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Not available.</td>
</tr>
<tr>
<td>Inhalation 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 single exposure (GHS)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific organ toxicity repeated exposure (GHS)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</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>
</tr>
<tr>
<td>Synergistic effects</td>
<td>Not available.</td>
</tr>
<tr>
<td>Additional Information</td>
<td>RTECS: Not available.</td>
</tr>
<tr>
<td>Potential Health Effects</td>
<td>Inhalation: May be harmful if inhaled.</td>
</tr>
<tr>
<td></td>
<td>Skin: May be harmful if absorbed through skin.</td>
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<td></td>
<td>Eyes: May cause eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Ingestion: May be harmful if swallowed.</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>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>Not available.</td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>PBT/vPvB assessment not available as chemical safety assessment not required.</td>
</tr>
</tbody>
</table>
Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

**Section 13. Disposal Considerations**

**Waste Disposal**
Dispose of material according to all federal, state and local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

**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 III, 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** Ticagrelor CAS: 274693-27-5

**New Jersey Right To Know Components** Ticagrelor CAS: 274693-27-5

**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.