1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product Name: BI-D1870
Catalog No.: T6171
CAS No.: 501437-28-1

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, manufacture of substances.

1.3 Details of the supplier of the safety data sheet
Company: Target Molecule Corp.
Tel: +1 (857) 239-0968
Fax: +1 832 582-8590

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

2.2 GHS Label elements, including precautionary statements:
Pictogram: Not classified
GHS Signal Word: Not classified
Hazard statement(s): No data available
Precautionary statement(s):
P264 Wash hands thoroughly after handling
P308+P313 IF exposed or concerned: Get medical advice/attention

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Synonyms: 2-(3,5-Difluoro-4-hydroxy-anilino)-8-isopentyl-5,7-dimethyl-7H-pteridin-6-one, racemic, p90 Ribosomal S6 Kinase Inhibitor II, BI-D1870, BID-1870, BID1870
Formula: C_{19}H_{23}F_{2}N_{5}O_{2}
Molecular weight: 391.42 mg/mol
CAS-No.: 501437-28-1

4. FIRST AID MEASURES

4.1 Description of first aid measures
4.11 In Case of Inhalation
Remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

4.12 In Case of Skin Contact
Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

4.13 In Case of Eye Contact:
Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eye lids with fingers; call a physician.

4.14 In Case of Ingestion
Wash out mouth with copious amounts of water; call a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2).
4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES
5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.3 Special hazards arising from the substance or mixture

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2 Environmental precautions
Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Store at -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
8.2 Exposure controls
8.2.1 Engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
8.2.2 Personal protective equipment
Eye protection : Safety goggles with side-shields.
Hand protection : Protective gloves.
Skin and body protection : Impervious clothing.
Respiratory protection : Suitable respirator.
Environmental exposure controls : Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
Appearance : Solid
Odor : No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor threshold</td>
<td></td>
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<tr>
<td>pH</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
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<tr>
<td>Boiling point/range</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Evaporation rate</td>
<td></td>
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<tr>
<td>Flammability (solid, gas)</td>
<td></td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
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<tr>
<td>Vapor pressure</td>
<td></td>
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<tr>
<td>Vapor density</td>
<td></td>
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<tr>
<td>Relative density</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
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<tr>
<td>Partition coefficient: no data available</td>
<td></td>
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<tr>
<td>Auto-ignition temperature</td>
<td></td>
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<tr>
<td>Decomposition temperature</td>
<td></td>
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<tr>
<td>Viscosity</td>
<td></td>
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<tr>
<td>Explosive properties</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Materials to avoid
Strong oxidizing agents.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - see section 5
Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available.

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitisation


No data available.

**Germ cell mutagenicity**
No data available.

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

**Reproductive toxicity**
No data available.

**Specific target organ toxicity - single exposure**
No data available.

**Specific target organ toxicity - repeated exposure**
No data available.

**Aspiration hazard**
No data available.

**Additional Information**

RTECS: Not available

The toxicological effects of this product have not been thoroughly studied.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity
May cause long lasting harmful effects to aquatic life.

#### 12.2 Persistence and degradability
No data available.

#### 12.3 Bioaccumulative potential
No data available.

#### 12.4 Mobility in soil
No data available.

#### 12.5 Results of PBT and vPvB assessment
BT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects
No data available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Product**
Dispose substance in accordance with prevailing country, federal, state and local regulations.

**Contaminated packaging**
Dispose substance in accordance with prevailing country, federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods
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 Hazards**
No SARA Hazard.

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

**Pennsylvania Right to Know Components**
No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right to Know Components**
No components are subject to the New Jersey Right to Know Act.

**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.

16. OTHER INFORMATION

The above information is believed to be correct based on the present state of our knowledge but does not purport to be complete. The product is for research and trained personnel use only. Target Molecule disclaims all liability for any damage resulting from handling or from contact with the above product.