1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
   Product Name: Chicago Sky Blue 6B
   Catalog No.: T2194
   CAS No.: 2610-05-1

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)
   Carcinogenicity (Category 1A, 1B) H350

2.2 GHS Label elements, including precautionary statements:
   Pictogram:

   GHS Signal Word: Danger
   Hazard statement(s):
   H350 May cause cancer
   Precautionary statement(s):
   P201 Obtain special instructions before use.
   P202 Do not handle until all safety precautions have been read and understood.
   P281 Use personal protective equipment as required.
   P308+P313 IF exposed or concerned: Get medical advice/attention.
   P405 Store locked up.
   P501 Dispose of contents/container to an approved waste disposal plant.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

   Substances
   Synonyms: Direct Blue 1, Pontamine sky blue
   Formula: C₃₄H₂₄N₆Na₄O₁₆S₄
   Molecular weight: 992.8 mg/mol
   CAS-No.: 2610-05-1

4. FIRST AID MEASURES

4.1 Description of first aid measures
   4.1.1 In Case of Inhalation
   Remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.
   4.1.2 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
Hazardous combustion products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides.

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
Prevent further leakage or spillage if safe to do so. 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.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous
materials causing chronic effects.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data available</td>
</tr>
<tr>
<td>octanol/water</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</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**
Inhalation: No data available
Dermal: No data available
LD50 Intravenous - Mouse - 2,260 mg/kg
Remarks: Cardiac: Other changes. Lungs, Thorax, or Respiration: Other changes.

**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**
Possible human carcinogen

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
Reproductive toxicity - Rat - Intraperitoneal
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

No data available
Developmental Toxicity - Rat - Intraperitoneal
Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Eye, ear.
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Developmental Toxicity - Rat - Intraperitoneal
Specific Developmental Abnormalities: Eye, ear.

**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 Toxicity
No data available.

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
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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
Chronic Health Hazard.

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

Pennsylvania Right to Know Components
Tetrasodium 6,6’-[(3,3’-dimethoxy[1,1’-biphenyl]-4,4’-diyl]bis(azo)]bis[4-amino-5-hydroxynaphthalene-1,3-CAS-No.: 2610-05-1

New Jersey Right to Know Components
Tetrasodium 6,6’-[(3,3’-dimethoxy[1,1’-biphenyl]-4,4’-diyl]bis(azo)]bis[4-amino-5-hydroxynaphthalene-1,3-CAS-No.: 2610-05-1

California Prop. 65 Components
WARNING! This product contains a chemical known to the state of California to cause cancer.
Tetrasodium 6,6’-[(3,3’-dimethoxy[1,1’-biphenyl]-4,4’-diyl]bis(azo)]bis[4-amino-5-hydroxynaphthalene-1,3-CAS-No.: 2610-05-1
Revision Date: 2007-09-28

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.