### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

<table>
<thead>
<tr>
<th>1.1 Product Code:</th>
<th>21271</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Nitenpyram</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>(1E)-N-[(6-chloro-3-pyridinyl)methyl]-N-ethyl-N'-methyl-2-nitro-1,1-ethenediamine;</td>
</tr>
</tbody>
</table>

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- Relevant identified uses: For research use only, not for human or veterinary use.

#### 1.3 Details of the Supplier of the Safety Data Sheet:

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>Cayman Chemical Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web site address:</td>
<td><a href="http://www.caymanchem.com">www.caymanchem.com</a></td>
</tr>
<tr>
<td>Information:</td>
<td>Cayman Chemical Company</td>
</tr>
<tr>
<td>Emergency Contact:</td>
<td>+1 (800)424-9300</td>
</tr>
</tbody>
</table>

#### 1.4 Emergency telephone number:

- CHEMTREC Within USA and Canada: +1 (800)424-9300
- CHEMTREC Outside USA and Canada: +1 (703)527-3887

### Section 2. Hazards Identification

#### 2.1 Classification of the Substance or Mixture:

| Acute Toxicity: Oral, Category 4 |
| Skin Corrosion/Irritation, Category 2 |
| Serious Eye Damage/Eye Irritation, Category 2 |
| Carcinogenicity, Category 1B |
| Specific Target Organ Toxicity (single exposure), Category 3 |

#### 2.2 Label Elements:

![GHS Signal Word: Danger](image)

**GHS Signal Word:** Danger

**GHS Hazard Phrases:**
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H350: May cause cancer.

**GHS Precaution Phrases:**
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P261: Avoid breathing (dust/fume/gas/mist/vapors/spray).
- P264: Wash (hands) thoroughly after handling.
- P280: Wear (protective gloves/protective clothing/eye protection/face protection).

**GHS Response Phrases:**
- P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: IF exposed or concerned: Get medical attention/advice.
P330: Rinse mouth.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362: Take off contaminated clothing and wash before re-use.

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms:
- Causes serious eye irritation.
- Causes skin irritation.
- Harmful if swallowed.
- Material may be irritating to the mucous membranes and upper respiratory tract.
- May be harmful by inhalation or skin absorption.
- May cause cancer.
- May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
</table>
| 150824-47-8 NA  | Nitenpyram                                                  | 100.0 %       | NA/NA              | Acute Tox.(O) 4: H302  
Skin Corr. 2: H315  
Eye Damage 2A: H319  
STOT (SE) 3: H335 H336  
Carcinogen 1B: H350 |

Section 4. First Aid Measures

4.1 Description of First Aid Measures:
- **In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
- **In Case of Skin Contact:** Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
- **In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
- **In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
Section 5. Fire Fighting Measures

5.1 Suitable Exinguising Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.2 Flammable Properties and Hazards: No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid raising and breathing dust, and provide adequate ventilation.

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning: Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment: NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.

No data available.
### Section 9. Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical States</td>
<td>[ ] Gas [ ] Liquid [X] Solid</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>A crystalline solid</td>
</tr>
<tr>
<td>pH</td>
<td>No data.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data.</td>
</tr>
<tr>
<td>Flash Pt</td>
<td>No data.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>LEL: No data. UEL: No data.</td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg)</td>
<td>No data.</td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1)</td>
<td>No data.</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1)</td>
<td>No data.</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>No data.</td>
</tr>
<tr>
<td>Solubility Notes</td>
<td>Soluble (slightly) in: MeOH; DMSO;</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient</td>
<td>No data.</td>
</tr>
<tr>
<td>Autoignition Pt</td>
<td>No data.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data.</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>No data.</td>
</tr>
<tr>
<td>Molecular Formula &amp; Weight</td>
<td>C11H15CIN4O2 270.7</td>
</tr>
</tbody>
</table>

#### 9.2 Other Information

- **Molecular Formula & Weight:** C11H15CIN4O2 270.7

### Section 10. Stability and Reactivity

#### 10.1 Reactivity:
- No data available.

#### 10.2 Stability:
- Unstable [ ] Stable [X]

#### 10.3 Stability Note(s):
- Stable if stored in accordance with information listed on the product insert.

#### 10.4 Conditions To Avoid:
- No data available.

#### 10.5 Incompatibility - Materials
- Strong oxidizing agents

#### 10.6 Decomposition or Byproducts:
- Carbon dioxide
- Carbon monoxide
- Nitrogen oxides
- Phosgene
# Section 11. Toxicological Information

## 11.1 Information on Toxicological Effects:

The toxicological effects of this product have not been thoroughly studied. Nitenpyram - Toxicity Data: Oral LD50 (rat): 1575 mg/kg; Oral LD50 (mouse): 867 mg/kg; Nitenpyram - Investigated as a primary irritant and reproductive effector. See actual entry in RTECS for complete information.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>150824-47-8</td>
<td>Nitenpyram</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

# Section 12. Ecological Information

## 12.1 Toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

## 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:

No data available.

## 12.6 Other adverse effects:

No data available.

# Section 13. Disposal Considerations

## 13.1 Waste Disposal Method:

Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

## 14.1 LAND TRANSPORT (US DOT):

- DOT Proper Shipping Name: Not dangerous goods.
- DOT Hazard Class: 
- UN/NA Number:

## 14.1 LAND TRANSPORT (European ADR/RID):

- ADR/RID Shipping Name: Not dangerous goods.
- UN Number: 
- Hazard Class: 

## 14.3 AIR TRANSPORT (ICAO/IATA):

- ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150824-47-8</td>
<td>Nitenpyram</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

## Other US EPA or State Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>CAA HAP,ODC:</th>
<th>CWA NPDES:</th>
<th>TSCA:</th>
<th>CA PROP.65:</th>
</tr>
</thead>
<tbody>
<tr>
<td>150824-47-8</td>
<td>Nitenpyram</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Section 16. Other Information

Revision Date: 02/26/2017

Additional Information About This Product: No data available.

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