Section 1: Chemical Product and Company Identification
Cat#: 24185
Part Name: COUMARIN 1
Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview
Low hazard for usual industrial or commercial handling.
GHS Classification
Non-Hazardous
Signal word: non-hazard

Hazard and Precautionary Statements
H000 Low hazard for normal industrial use
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305B IF IN EYES, Separate eyelids with finger tips.
P335 Brush off loose particles from skin.
P351 Rinse cautiously with water for several minutes.

NFPA Rating

Hazard Ratings:
These ratings are Polysciences' Inc. own asessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).
If no data is listed the information is not available.

Health Flammability Reactivity
0 1 1

Section 3: Composition/ Information on Ingredients

Item# Name EINECS CAS# % in product
1 7-(Diethylamino)-4-methyl-2H-1-benzopyran-2-one 202-068-9 0000091441 95-100

Section 4: First Aid Measures

Brush off the skin.
Flush eyes with flowing water for at least 15 minutes.
Separate eyelids with finger tips.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data
UEL: no data LEL: no data
Autoignition temperature, deg. F.: no data
Flame Propagation Rate: no data
Hazardous Combustion Products: nitrogen oxides

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.
No special measures are indicated.

Section 7: Handling and Storage

Store at room temp
Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

<table>
<thead>
<tr>
<th>CAS#</th>
<th>TWA ppm</th>
<th>STEL ppm</th>
<th>CEILING ppm</th>
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<tbody>
<tr>
<td></td>
<td>mg/</td>
<td>mg/m³</td>
<td>mg/m³</td>
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The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Section 9: Physical and Chemical Properties

- Formula: C14H17NO2
- Formula Weight: 231.3
- Appearance: tan/pink odorless powder
- Specific gravity: 0
- PH: no data
- Boiling point: no data
- Melting point: no data
- Vapor pressure: no data
- Vapor density: no data
- Solubility: insoluble

Section 10: Stability and Reactivity

- Chemical Stability: stable
- Conditions to Avoid: none
- Incompatibility with other materials: none
- Hazardous Decomposition Products: none
- Hazardous Polymerization: will not occur

Section 11: Toxicological Information

- Acute Data: Oral LD50(rat): >5000 mg/kg
  Demal LD50(rabbit): >2000 mg/kg
  Inhalation LC50 (rat): 6.3 mg/l
- Subchronic data: no data

Section 12: Ecological Information

- no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Waste Code</th>
<th>Regulated Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000091441</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

Section 14: Transportation Data

- Proper Shipping Name: NOT REGULATED
- Chemical Name: UN
- Class: PG

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.
Section 16: Other Information

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END OF MSDS