Material Safety Data Sheet
Fluorene, 98%

Section 1 - Chemical Product and Company Identification

MSDS Name: Fluorene, 98%
Catalog Numbers: 15613-0000, 15613-0250, 15613-1000, 15613-5000
Synonyms: Diphenylenemethane

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaen 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
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</thead>
<tbody>
<tr>
<td>86-73-7</td>
<td>Fluorene</td>
<td>98%</td>
<td>201-695-5</td>
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Hazard Symbols: None listed
Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Not available

Potential Health Effects

Eye: Contact may cause transient eye irritation.
Skin: May cause skin irritation.
Ingestion: The toxicological properties of this substance have not been fully investigated.
Inhalation: May cause respiratory tract irritation.
Chronic:

Section 4 - First Aid Measures
Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician:

Section 5 - Fire Fighting Measures
General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures
General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage
Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection
Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits
CAS# 86-73-7:
Personal Protective Equipment
Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear a chemical apron.
A NIOSH/MSHA approved air purifying dust or mist respirator or European Respirators: Standard EN 149.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
Color: almost white - light brown
Odor: Not available
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: 298 deg C @ 760.00mm Hg (568.40°F)
Freezing/Melting Point: 112 - 115 deg C
Autoignition Temperature: Not available
Flash Point: 151 deg C (303.80 deg F)
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: 1.2020g/cm3
Molecular Formula:
Molecular Weight: 166.22

Section 10 - Stability and Reactivity
Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information
RTECS#:
CAS# 86-73-7: LL5670000
LD50/LC50: RTECS: Not available.
Fluorene - IARC: Group 3 (not classifiable)
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Ecotoxicity: Not available

Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

<table>
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<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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<tbody>
<tr>
<td>Not available</td>
<td>Not available</td>
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Shipping Name: Not available
Hazard Class: Not available
UN Number: Not available
Packing Group: Not available

USA RQ: CAS# 86-73-7: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
   S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)
   CAS# 86-73-7: Not available

Canada
   CAS# 86-73-7 is listed on Canada's DSL List
</TD>

US Federal

TSCA
   CAS# 86-73-7 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996
Revision #0 Date Original.

The information above is believed to be accurate and represents the best
information currently available to us. However, we make no warranty of 
merchability or any other warranty, express or implied, with respect to 
such information, and we assume no liability resulting from its use. Users 
should make their own investigations to determine the suitability of the 
information for their particular purposes. In no event shall the company be 
liable for any claims, losses, or damages of any third party or for lost profits 
or any special, indirect, incidental, consequential, or exemplary damages 
howsoever arising, even if the company has been advised of the possibility of 
such damages.

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