Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Epoxyl acid, approx. 99%
Product Number: 76758
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3050 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Fax: 606 325 5055
Emergency Phone: 414 273 3850 Ext. 5998

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC No</th>
<th>Annex I Index Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOIC ACID</td>
<td>59-36-3</td>
<td>No</td>
<td>200-419-0</td>
<td></td>
</tr>
</tbody>
</table>

Formula: C10H10N7O6
Section 9 - Physical/Chemical Properties

Appearance
Physical State  Color
Solid  Yellow

Molecular Weight: 441.4 AMU

pH  N/A
BPBP Range  N/A
M/P/M Range  > 285 °C
Freezing Point  N/A
Vapor Pressure  N/A
Vapor Density  N/A
Saturated Vapor Conc.  N/A
SG/Density  N/A
Bulk Density  N/A
Odor Threshold  N/A
Vapor%  N/A
VOC Content  N/A
Water Content  B %
Solvent Content  N/A
Evaporation Rate  N/A
Viscosity  N/A
Partition Coefficient  N/A
Decomposition Temp.  N/A
Flash Point °F  N/A
Flash Point °C  N/A
Explosion Limits  N/A

Flammability  N/A
Autoignition Temp  Degree of Rotation: Solvent: 0.1 M NaOH10 g/l
Optical Rotation  +24° ~ +20° (+/-2)
Solubility  N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable.

Conditions of Instability
Light sensitive.

Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
May be harmful if swallowed.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: LPS425000

Toxicity Data
Intravenous - Rat: 500 MG/KG (LD50)
Oral - Mouse: 10000 mg/kg (LD50)
Intraperitoneal - Mouse: 85 MG/KG (LD50)

Chronic Exposure - Teratogen
Species  Route  Exposure Time
Rat  99500 MG/KG  Oral  (1-21D PREG)

Chronic Exposure - Mutagen

<table>
<thead>
<tr>
<th>Species</th>
<th>Route</th>
<th>Mutation Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>150 MG/KG</td>
<td>Unscheduled DNA synthesis</td>
</tr>
<tr>
<td>Mouse</td>
<td>150 MG/KG</td>
<td>Unscheduled DNA synthesis</td>
</tr>
<tr>
<td>Mouse</td>
<td>250 MG/KG</td>
<td>Unscheduled DNA synthesis</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
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 air/scrubber and scrubber.

Observe all federal, state, and local environmental regulations.
Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

United States Regulatory Information
SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPRI, and the MSDS contains all the information required by the CPRI.
DGL: Yes
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.