SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code: 22330
Product name: 1,6-BISMALEIMIDOHEXANE, BMH

Company/undertaking identification

Life Technologies Corporation
5781 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
United States
1.815.968.0747 or
1.800.874.3723

24 hour Emergency Response:
866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):
CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
DANGER

Health hazards

<table>
<thead>
<tr>
<th>Health hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity - Vapors</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Revision date: 09-Mar-2016
Product code: 22330
Product name: 1,6-BISMALEIMIDOHEXANE, BMH
www.thermofisher.com
Serious eye damage/eye irritation  Category 2

**Hazard Statements**
H302 - Harmful if swallowed
H330 - Fatal if inhaled
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

**Precautionary Statements**

**Prevention**
Not Applicable

**Response**
Not Applicable

**Storage**
Not Applicable

**Disposal**
Not Applicable

**Precautionary Statements**
P310 - Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling

**Principle Routes of Exposure**

<table>
<thead>
<tr>
<th>Potential Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>eyes</td>
</tr>
<tr>
<td>Irritating to eyes.</td>
</tr>
<tr>
<td>Skin</td>
</tr>
<tr>
<td>Irritating to skin.</td>
</tr>
<tr>
<td>inhalation</td>
</tr>
<tr>
<td>Toxic by inhalation. Irritating to respiratory system.</td>
</tr>
<tr>
<td>Ingestion</td>
</tr>
<tr>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

**Specific effects**

<table>
<thead>
<tr>
<th>Carcinogenic effects</th>
<th>None.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenic effects</td>
<td>None.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>None.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not Applicable.</td>
</tr>
</tbody>
</table>

**Target Organ Effects**
None under normal use conditions.

**HMIS**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>4</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

www.thermofisher.com
SECTION 4: First aid measures

Skin contact
Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Ingestion
Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Inhalation
Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed
H302 - Harmful if swallowed, H330 - Fatal if inhaled, H315 - Causes skin irritation, H319 - Causes serious eye irritation, H335 - May cause respiratory irritation

Notes to Physician
Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media

Special protective equipment for firefighters
Wear self-contained breathing apparatus and protective suit.

Specific hazards arising from the chemical
Not known

SECTION 6: Accidental release measures

Personal precautions
Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

Environmental precautions
No special environmental precautions required.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling
Always wear recommended Personal Protective Equipment. Avoid contact with skin and eyes.

Storage
Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

We recommend handling all chemicals with caution.
### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1’-(hexane-1,6-diyl)bis-1H-pyrrole-2,5-dione</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution’s risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

- **Respiratory protection**: In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection**: Impervious gloves.
- **Eye protection**: Wear safety glasses with side shields (or goggles).
- **Skin and Body Protection**: Lightweight protective clothing.
- **Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice.

### Environmental exposure controls

No special environmental precautions required.

### SECTION 9: Physical and chemical properties

#### General information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C 144</td>
</tr>
<tr>
<td>flash point</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C 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>Oxidizing properties</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</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>Viscosity</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>pH value</td>
<td>1</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

- **Stability**: Stable under normal conditions.
- **Materials to avoid**: No information available.
- **Possibility of hazardous reactions**: Hazardous reaction has not been reported.
Hazardous decomposition products
No information available.

polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1'-(hexane-1,6-diyl)bis-1H-pyrrole-2,5-dione</td>
<td>= 550 mg/kg (Rat)</td>
<td>No data available</td>
<td>$=900$ mg/m$^3$(Rat)</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure

eyes
Irritating to eyes.

Skin
Irritating to skin.

inhalation
Toxic by inhalation. Irritating to respiratory system.

Ingestion
Harmful if swallowed.

Carcinogenic effects
None.

Mutagenic effects
None.

Reproductive toxicity
None.

Sensitization
No information available.

Target Organ Effects
None under normal use conditions

SECTION 12: Ecological information

Ecotoxicity
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility
No information available.

Biodegradation
No information available.

Bioaccumulation
No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA
 Proper Shipping Name
No dangerous good in sense of these transport regulations

Hazard Class
None

Subsidiary class
None

Packing group
None

UN-No
None

Environmental hazards
None
SECTION 16: Other information

Reason for revision  SDS sections updated.
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End of Safety Data Sheet