Section 1: Chemical Product and Company Identification
Cat#: 17734C
Part Name: OSTEO-BED CATALYST
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
Can violently decompose at high temperatures.
Causes skin and eye irritation.
Harmful to fish and other water organisms.
Oxidizing material.
GHS Classification
Explosives Division 1.3
Oxidizing Solid Category 3
Skin Irritant Cat 2, Eye Irritation Cat 2B

Signal word: Danger

Hazard and Precautionary Statements

H240 Heating may cause an explosion.
H270 May cause or intensify fire; oxidiser.
H315 + H320 Cause skin and eye irritation
H412 Harmful to aquatic life with long lasting effects.
P285 In case of inadequate ventilation wear respiratory protection.
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304A IF INHALED: Begin rescue breathing if necessary and contact medical personnel.
P313 Get medical advice/attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351 Rinse cautiously with water for several minutes.
P501 Dispose of contents/container to proper waste area in accordance with institutional practices and local, state or federal regulations.

NFPA Rating
Hazard Ratings:
These ratings are Polysciences’ Inc. own assessments 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
1 2 2

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

<table>
<thead>
<tr>
<th>Item#</th>
<th>Name</th>
<th>EINECS</th>
<th>CAS#</th>
<th>% in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Benzoyl peroxide</td>
<td>202-327-6</td>
<td>0000094360</td>
<td>51 - 60</td>
</tr>
<tr>
<td>2</td>
<td>Dicyclohexyl phthalate</td>
<td>201-545-9</td>
<td>0000084617</td>
<td>51 - 60</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures
Begin rescue breathing if necessary and contact medical personnel.
Contact medical personnel.
Flush eyes with flowing water for at least 15 minutes. 
If breathing is difficult, contact emergency personnel. 
If swallowed, wash out mouth with water if person is conscious. 
Remove to fresh air. 
Wash skin with deluge of water for at least 15 minutes. 

Section 5: Fire Fighting Measures
Flash point, deg F.: nap 
Method: 
UEL: no data 
LEL: no data 
Autoignition temperature, deg. F.: no data 
Flammability Classification: no data 
Flame Propagation Rate: no data 
Hazardous Combustion Products: no data 

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.
Protect personnel from exposure.
Remove ignition sources.
Sweep up solids. 

Section 7: Handling and Storage
Store at room temp

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

<table>
<thead>
<tr>
<th>CAS#: 0000084617</th>
<th>IDLH: NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>NE</td>
</tr>
<tr>
<td>ACGIH</td>
<td>NE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS#: 0000094360</th>
<th>IDLH: 1,500 mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>Not classified 5</td>
</tr>
<tr>
<td>ACGIH</td>
<td>-- 5</td>
</tr>
</tbody>
</table>

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. 

Use process enclosures, local exhaust ventilation, or other engineering controls. 

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

<table>
<thead>
<tr>
<th>Formula: nap</th>
<th>vapor pressure: no data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula Weight: nap</td>
<td>vapor density: no data</td>
</tr>
<tr>
<td>boiling point: no data</td>
<td>Specific gravity: 0</td>
</tr>
<tr>
<td>melting point: no data</td>
<td>pH: no data</td>
</tr>
<tr>
<td>solubility: negligible</td>
<td>appearance: white free-flowing granules</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity
Chemical Stabilit: stable 
Conditions to Avoid: heat 
Incompatibility with other materials: reactive material; metals 
Hazardous Decomposition Products: no data 
Hazardous Polymerization: will not occur 

Section 11: Toxicological Information
Acute Data: no data 
Subchronic data: no data 

Section 12: Ecological Information
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>0000084617</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>0000094360</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

Section 14: Transportation Data

Proper Shipping Name: ORGANIC PEROXIDE TYPE D, SOLID
Chemical Name
UN: UN3106
Class: 5.2 Kee
PG: II

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000084617</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>0000094360</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>not listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000084617</td>
<td>not listed</td>
</tr>
<tr>
<td>0000094360</td>
<td>not listed</td>
</tr>
</tbody>
</table>

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III)
This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Regulated name</th>
<th>de minimis conc. %</th>
<th>Rep. Thres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000084617</td>
<td>not listed</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>0000094360</td>
<td>Benzoyl peroxide</td>
<td>1.0</td>
<td>not listed</td>
</tr>
</tbody>
</table>

SARA Extremely Hazardous Substances and TPQs
This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Regulated name</th>
<th>TPQ (pounds)</th>
<th>EHS-RQ(pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000084617</td>
<td>not listed</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>0000094360</td>
<td>not listed</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

CERCLA
The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302. Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Regulated name</th>
<th>RQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000084617</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>0000094360</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Section 16: Other Information

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END OF MSDS