1. Identification

Product Name: BPO Catalyst
Product identifier: 100457
Relevant identified uses of the substance or mixture and uses advised against:
Polymerization initiator

Other means of identification

Chemical Manufacturer / Importer / Distributor: ITW Evercoat
a division of Illinois Tool Works Inc.
6600 Cornell Road
Cincinnati, OH 45242
513-489-7600

Emergency telephone number:
CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard Symbols: 

GHS Classification:
Skin Sensitisation Category 1
Serious Eye Damage/Eye Irritation Category 2A
Flammable Liquid Category 4

GHS Signal Word:
Warning

GHS Hazard Statements:
May cause an allergic skin reaction.
Causes serious eye irritation.

GHS Precautionary Statements:
Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

First Aid Measures:
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
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if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction.

Storage:
Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents/container in accordance with
local/regional/national/international regulation for hazardous wastes.

Hazards not otherwise classified:
No data available

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>CAS number and other unique identifiers</th>
<th>% (or range) of ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl Peroxide</td>
<td>94-36-0</td>
<td>10 - 30</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Eye Contact: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Ingestion: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

Immediate medical attention and special treatment needed:
No additional first aid information available
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5. Fire-fighting measures

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Unsuitable extinguishing media: No data available

Fire and/or Explosion Hazards: Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Special protective equipment and precautions for fire-fighters: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section VIII of this MSDS.

Methods and material for containment and cleaning up: No special spill clean-up considerations. Collect and discard in regular trash.

7. Handling and storage

Precautions for safe handling: No special handling instructions due to toxicity. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid breathing material. Minimize dust generation and accumulation

Conditions for safe storage: Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use

Materials to Avoid/Chemical Incompatibility: Metals Strong oxidizing agents Acids

8. Exposure controls/personal protection

Limits:

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl Peroxide</td>
<td>5 mg/m3</td>
<td>5 mg/m3</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Appropriate engineering controls: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator...
comfort under normal conditions of use. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye Protection: Wear safety glasses when handling this product. Wear goggles if dusts can reach the exposure limit. An eye wash station must be available where this product is used.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section III. A respirator is not normally required. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is possible.

Other Protective Equipment: Wear goggles if dusts can reach the exposure limit. An eye wash station must be available where this product is used.

General Hygiene Conditions: As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid breathing material. Minimize dust generation and accumulation.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state):</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Ester-like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7</td>
</tr>
<tr>
<td>Melting Point/Freezing Point (°C):</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range (°C):</td>
<td>100</td>
</tr>
<tr>
<td>Flash Point (°C):</td>
<td>84</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>Upper Flammable/Explosive Limit:</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Flammable/Explosive Limit:</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 1 MMHG@20C/68F 17.5 MMHG@20C/68F</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Minimal; 1-9%</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Safety Data Sheet

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Replaces:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition Temperature (°C)</td>
<td>80 °C</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC (as packaged-less exempts and water)</td>
<td>0 or 0</td>
</tr>
<tr>
<td>VOC (as applied*- 2% by wt hardener-less exempts and water)</td>
<td>0 or 0</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity: No data available
Chemical stability: Stable under normal conditions.
Conditions to avoid: None known.
Incompatible materials: Metals, Strong oxidizing agents, Acids

11. Toxicological information

Likely routes of exposure (inhalation, ingestion, skin and eye contact):
- Inhalation, Ingestion, Eye contact

Immediate (Acute) Health Effects by Route of Exposure:
- **Inhalation Irritation:** Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
- **Inhalation Toxicity:** Harmful! Can cause systemic damage (see "Target Organs"
- **Skin Contact:** No hazard in normal industrial use.
- **Eye Contact:** Can cause minor irritation, tearing and reddening.
- **Ingestion Irritation:** No hazard in normal industrial use.
- **Ingestion Toxicity:** Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:
- **Carcinogenicity:** None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
- **Reproductive and Developmental Toxicity:**
  - 0.1% may cause birth defects.
- **Mutagenicity:**
  - No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
- **Inhalation:**
  - Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs"
- **Skin Contact:** Unlikely to cause irritation even on repeated contact.
Component Toxicology Data

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Has the chemical been classified as a Carcinogen by NTP, IARC or OSHA.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA Carcinogen</th>
<th>IARC Carcinogen</th>
<th>NTP Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): This material is not expected to be harmful to the ecology.
Persistence and degradability: No data available
Mobility in soil: No data available
Other adverse effects (such as hazardous to the ozone layer): No data available

Données sur l’écotoxicité

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>Aquatic EC50 Crustacea</th>
<th>Aquatic ERC50 Algae</th>
<th>Aquatic LC50 Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. Disposal considerations

Description of waste residues: Spent or discarded material may be a hazardous waste.
Waste treatment methods (including packaging): Dispose of by incineration following Federal, State, Local, or Provincial regulations.

14. Transport information

UN number: No data available
UN proper shipping name: ORGANIC PEROXIDE TYPE E, (DIBENZOYL PEROXIDE)
Transport hazard class(es): No data available
Packing group: No data available

The shipper is responsible for following all applicable regulations. The transportation classification provided is based on ITW Evercoat original packaging, which is suitable for domestic ground transport only.
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Replaces:

15. Regulatory information

Statut TSCA: All components in this product are on the TSCA Inventory.

Regulated Components:

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>CAS number and other unique identifiers</th>
<th>CERCLA</th>
<th>SARA EHS</th>
<th>SARA 313</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl Peroxide</td>
<td>94-36-0</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

16. Other information, including date of preparation or last revision.

Revision Date: 12-14-2015
Revision Number: 8

Disclaimer: NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances