1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Hi Point 90 (TAP MEKP Liquid Catalyst)

Chemical name: Methyl ethyl ketone peroxides

Supplier: Pergan Marshall, LLC
710 – B Bussey Road
Marshall, TX 75670

Emergency telephone number: Pergan Marshall Emergency Response 903-938-5141
CHEMTREC (24 hours) 800-424-9300

For MSDS, Product Safety, or Regulatory inquiries, call: 903.934.7757

Customer Service: 877-2-Pergan (877-273-7426) or 903.934.7762
customerservice@pergan-na.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS#</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone peroxides</td>
<td>1338-23-4</td>
<td>36.0 - 40.0 %</td>
</tr>
<tr>
<td>(% Active Oxygen)</td>
<td>-</td>
<td>&lt;= 9.0 %</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>131-11-3</td>
<td>32.0 - 36.0 %</td>
</tr>
<tr>
<td>proprietary safety diluent</td>
<td>Trade secret</td>
<td>26.0 - 30.0 %</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>0.1 - 1.0 %</td>
</tr>
<tr>
<td>Hydrogen peroxide 35%</td>
<td>7722-84-1</td>
<td>0.1 - 1.5 %</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!
MAY BE HARMFUL OR FATAL IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE IRRITATING OR CORROSIVE TO THE SKIN AND/OR EYES.
COMBUSTIBLE LIQUID
OXIDIZING MATERIAL
4. FIRST AID MEASURES

Swallowing
Obtain medical attention. If patient is fully conscious, rinse mouth with water. Give water to drink. Drink water in small sips. (Diluting effect) Never give anything by mouth to an unconscious person. Vomiting may cause aspiration into the lungs resulting in chemical pneumonia.

Skin
Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

Inhalation
Remove to fresh air. If exposure is severe, hospitalize and observe. If breathing has stopped, give artificial respiration.

Eye contact
Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention immediately. May cause blindness.

Notes to physician
ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation, mist. TARGET ORGANS: Eyes, skin, respiratory system.

5. FIRE-FIGHTING MEASURES

Flash point: 80 °C

Flammable limits
Lower limit: Not available
Upper limit: Not available

Autoignition temperature: Not determined

NFPA CLASSIFICATION

| Health: 3 | Flammability: 2 | Reactivity: 2 | Special provisions: - |

Special fire fighting procedures
Evacuate all personnel from danger area. Use water spray to cool fire-exposed containers and structures.

Special protective equipment for firefighters
Body covering protective clothing. Self-contained breathing apparatus.

Extinguishing media
Suitable: - water fog
- foam
- CO2
- dry chemical
- dry sand
Unusual fire and explosion hazards
Other harmful gases and vapors may be formed in addition to the major combustion products of carbon dioxide and carbon monoxide. There is a potential for an explosive decomposition in a fire situation. Once ignited, this product will burn vigorously and with acceleration.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid contact with eyes and skin. Avoid contact with liquid and vapors. Provide sufficient ventilation.

Environmental precautions
Avoid runoff to sewers or waterways. This product has limited solubility in water.

Methods for cleaning up
Stop the leak if it can be done without risk.
Dike to contain spill.
Absorb on inert material such as sand, earth, vermiculite.
Cover by foam or wet with small quantities of water.
Sweep up using non-sparking equipment.
Collect in a suitable container for disposal.
Storage material: Polypropylene, polyethylene
Dispose of waste material in compliance with all federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING
Handling precautions
Keep containers tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wear recommended personal protection equipment. Remove contaminated clothing and wash before reuse. Use spark-proof tools and explosion-proof equipment.

Other precautions
Keep away from heat, sparks and flame.
Do not expose to direct sunlight.
Store containers in a well-ventilated area. Open them cautiously, in case they may be under slight pressure. Have good ventilation and suitable protective equipment in areas where containers will be opened.

STORAGE
Storage requirements
Regulated as an Organic Peroxide, Class 5.2, for storage and handling. Store in original containers away from incompatible materials, direct sunlight, flames, and all sources of heat.

Further information on storage
Maximum Storage Temperature: 38 °C (100 °F). In order to maintain the product's original manufactured assay in long term storage, a lower storage temperature of below 30 °C (86 °F) is strongly recommended. Shelf Life: (Calculated from half-life data in benzene solution) Estimate > 48 months at which 95% of the original manufactured assay remains when stored at or below 30 °C (86 °F).
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection
None required in normal use. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area.

Hand protection / protective gloves
Neoprene type gloves.

Eye protection
Wear suitable eye protection.
Faceshield
Monogoggles
Contact lenses should not be worn.

Skin protection
Wear protective clothing.
Apron/boots of neoprene if risk of splashing

ENGINEERING CONTROLS

Ventilation
General (mechanical) room ventilation is expected to be satisfactory.

EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone peroxides</td>
<td>Ceiling, ACGIH</td>
<td>1.5 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1.5 mg/m3</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>TWA, ACGIH</td>
<td>5.0 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>TWA, ACGIH</td>
<td>200.0 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL, ACGIH</td>
<td>300.0 ppm</td>
<td></td>
</tr>
<tr>
<td>Hydrogen peroxide 35%</td>
<td>TWA, ACGIH</td>
<td>1.0 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Consult local authorities for acceptable provincial values.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state Liquid
Color Colorless to light yellow
Odor Characteristic
Odor threshold No data available.
Product name: Hi Point 90

OTHER PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>Decomposition: 68°C</td>
</tr>
<tr>
<td>Solidification</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Specific gravity (H2O=1)</td>
<td>1.072 at 25 °C</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate (Butyl Acetate=1)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partitioning coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>80 °C</td>
</tr>
<tr>
<td>Method: Setaflash closed cup ASTM D 3828</td>
<td></td>
</tr>
<tr>
<td>Percent volatiles</td>
<td>&lt; 3 % (m)</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>15 cSt at 25 °C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: This product is stable only when stored at, or below, the recommended maximum temperature. (see section 7)

SADT
Value: 70 °C
Remark: : 40# Package

Stability - Conditions to avoid
- Contamination with ANY foreign substance,
- Exposure to heat.
- Protect from direct sunlight.

Incompatible materials
- Strong acids.
- Reducing agents.
- Accelerators
- Promoters
- Other reactive chemicals

Hazardous combustion products
- Carbon monoxide.
- Carbon dioxide.
- Hydrocarbons.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING
Acute effects
- Harmful or fatal if swallowed.
Product name: Hi Point 90

<table>
<thead>
<tr>
<th>Test results</th>
<th>Test substance: 9% AO MEKP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity:</td>
<td>LD50 - Rat</td>
</tr>
<tr>
<td>Result:</td>
<td>1,017 mg/kg</td>
</tr>
</tbody>
</table>

**SKIN ABSORPTION**

**Acute effects**
May cause eye and skin irritation.

<table>
<thead>
<tr>
<th>Test results</th>
<th>Test substance: 9% AO MEKP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity:</td>
<td>LD50 - Rabbit</td>
</tr>
<tr>
<td>Result:</td>
<td>4,000 mg/kg</td>
</tr>
</tbody>
</table>

**INHALATION**

**Acute effects**
May be harmful by inhalation.

<table>
<thead>
<tr>
<th>Test results</th>
<th>Test substance: 9% AO MEKP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity:</td>
<td>LC50 - Mouse</td>
</tr>
<tr>
<td>Result:</td>
<td>17 mg/l</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>4 h</td>
</tr>
</tbody>
</table>

**SKIN CONTACT**

**Acute effects**
May cause allergic skin reaction.

<table>
<thead>
<tr>
<th>Test results</th>
<th>Skin irritation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Result:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**EYE CONTACT**

**Acute effects**
May cause chemical burns of the eye.

<table>
<thead>
<tr>
<th>Test results</th>
<th>Eye irritation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Result:</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

**13. DISPOSAL CONSIDERATIONS**

**US waste**
Dispose of waste material in compliance with all federal, state, and local regulations. Hazardous waste identification number D003, characteristic of reactivity (see 40CFR261.23).
14. TRANSPORT INFORMATION

DOT Classification
Proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDES, <=45%)
Class: 5.2
UN ID #: UN 3105
Packing group: II

IMDG Classification
This product is regulated by IMDG.
Proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDES, <=45%)
Class: 5.2
UN ID #: UN 3105
Packing group: II

ICAO Classification
Proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDES, <=45%)
Class: 5.2
UN ID #: UN 3105
Packing group: II

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS#</th>
<th>Max weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl phthalate</td>
<td>131-11-3</td>
<td>32.00 - 36.00</td>
</tr>
</tbody>
</table>

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS#</th>
<th>New Jersey TS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone peroxides</td>
<td>1338-23-4</td>
<td></td>
</tr>
<tr>
<td>(% Active Oxygen)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>131-11-3</td>
<td></td>
</tr>
<tr>
<td>XXX Proprietary safety diluent</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CHEMICAL INVENTORY

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.
16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS
Dust generated from the sanding or finishing of certain types of hardened resins can spontaneously combust if stored or disposed of improperly. Consult your resin manufacturer for proper dust storage and disposal.

FURTHER INFORMATION
MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

HMIS RATING

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

LEGEND

<table>
<thead>
<tr>
<th>STP</th>
<th>Standard temperature and pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/W</td>
<td>Weight/Weight</td>
</tr>
<tr>
<td>0 (HMIS)</td>
<td>Minimal hazard</td>
</tr>
<tr>
<td>1 (HMIS)</td>
<td>Slight hazard</td>
</tr>
<tr>
<td>2 (HMIS)</td>
<td>Moderate hazard</td>
</tr>
<tr>
<td>3 (HMIS)</td>
<td>Serious hazard</td>
</tr>
<tr>
<td>4 (HMIS)</td>
<td>Severe hazard</td>
</tr>
<tr>
<td>X (HMIS)</td>
<td>Personal protection rating to be supplied by user depending on use conditions</td>
</tr>
</tbody>
</table>

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