Polymer Concrete, Inc.

SAFETY DATA SHEET

Name: **RESURF® RESIN CATALYST** Revision Date: 06/01/2015

EMERGENCY TELEPHONE NUMBER: 334-412-2440
Polymer Concrete, Inc.
P.O. Box 610
Camden, AL 36726 Telephone: 334-682-4296

1. PRODUCT AND SUPPLIER IDENTIFICATION

Product name:	Hi Point 90
Chemical name:	Methyl ethyl ketone peroxides
Supplier:	Pergan Marshall, LLC 710-B Bussey Road Marshall, TX 75670
Supplier phone:	877-273-7426 or 903-938-5141
Supplier email:	customerservice@pergan-na.com

EMERGENCY TELEPHONE NUMBER: ChemTel (24 hours): 1-800-255-3924

2. HAZARD 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
Methyl ethyl ketone peroxides	1338-23-4	36.0 – 40.0%
(% Active Oxygen)	--	<=9.0%
Dimethyl phthalate	131-11-3	32.0 – 36.0%
Proprietary safety diluents	Trade secret	26.0 – 30.0%
Methyl Ethyl Ketone	78-93-3	0.1 – 1.0%
Hydrogen peroxide 35%	7722-84-1	0.1 – 1.5%

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 a n 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

Component	Type	Value	Remark
Methyl ethyl ketone peroxides	Ceiling, ACGIH	1.5 mg/m3	
	TWA	1.5 mg/m3 0.2 ppm	8 hours
Dimethyl phthalate	TWA,ACGIH	5.0 mg/m3	
Methyl Ethyl Ketone	TWA,ACGIH	200.0 ppm	
	STEL,ACGIH	300.0 ppm	
Hydrogen peroxide 35%	TWA,ACGIH	1.0 ppm	

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

OTHER PROPERTIES

Boiling point	**Decomposition 68°C**
Solidification	**Not determined**
pH	**Not applicable**
Specific gravity (H20=1)	**1.072 at 25°C**
Vapor pressure	**Not determined**
Vapor density (air=1)	**Not determined**
Evaporation rate (Butyl Acetat=1)	**Not determined**
Partitioning coefficient	**Not determined**
Flash point	**80°C** **Method: Setaflash closed cup ASTM D 3828**
Percent volatiles	**<3 %(m)**
Kinematic viscosity	**15 cSt at 25°C**

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

Test results	Test substance: 9% AO MEKP
Acute toxicity:	LD50 - Rat
	Result: 1,017 mg/kg

SKIN ABSORPTION
Acute effects
May cause eye and skin irritation

Test Results

Acute toxicity:	Test substance: 9% AO MEKP
	LD50 – Rabbit
	Result: 4,000 mg/kg

INHALATION
Acute effects
May be harmful by inhalation

Test results

Acute toxicity:	Test substance: 9% AO MEKP
	LD50 – Mouse
	Result: 17 mg/l
	Exposure time: 4h

SKIN CONTACT
Acute effects
May cause allergic skin reaction

Test results

Skin irritation:	Species: Rabbit
	Result: No data available

EYE CONTACT
Acute effects
May cause chemical burns of the eye

Test results

Eye irritation:	Species: Rabbit
	Result: Corrosive

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:

Chemical name	**CAS#**	**Max weight%**
Dimethyl phthalate	131-11-3	32.00 – 36.00

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

Chemical name	**CAS#**	**New Jersey TS Number**
Methyl ethyl ketone peroxides	1338-23-4	
(% Active Oxygen)	-	
Dimethyl Phthalate	131-11-3	
XXX Proprietary safety diluents	-	

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 starage and disposal.

Further Information
May be on the inventory list but not necessarily registered, (Korea, China, New Zealand)
Consult Regulatory Specialist

HMIS Rating

Health: 3	Flammability: 2	Reactivity: 2	PPI: -

Legend

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

The opinions expressed herein are those of qualified experts within Pergan Marshall, LLC/ We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Pergan Marshall, LLC, it is the user's obligation to determine the conditions of safe use of the products.