



MATERIAL SAFETY DATA SHEET

0211219-002-US

Version: 1.6
Date of Issue: 09/21/2006
Date printed: 02/20/2007

Hi - Point 90

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hi - Point 90

Chemical name: Methyl ethyl ketone peroxides

Use of substance/preparation: Initiator ("catalyst") for curing polyester resin formulatons.

Supplier: Chemtura USA Corporation
Chemtura Corporation (Worldwide HQ)
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Environmental, Health and Safety Department: 866-430-2775

Customer Service: 877-948-2660

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Methyl ethyl ketone peroxide CAS# 1338-23-4	36 - 40
(% Active Oxygen) CAS# -	<= 9
Proprietary safety diluent CAS# Trade secret	58 - 66
Methyl ethyl ketone CAS# 78-93-3	0.1 - 1
Hydrogen peroxide 35% CAS# 7722-84-1	0.1 - 1.5

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



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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.

Inhalation

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

Skin contact

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

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: 176 °F 80 °C
Flammable limits
Lower limit: Not available
Upper limit: Not available
Autoignition temperature: Not available

NEPA CLASSIFICATION

Health: 3	Flammability: 2	Reactivity: 2	Special provisions:
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Hazardous combustion products

Carbon monoxide.
Carbon dioxide.
Hydrocarbons.

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



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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

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., Keep away from heat, sparks and flame., Do not expose to direct sunlight.

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

EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Methyl ethyl ketone peroxide		Ceiling, ACGIH	1.5 mg/m3	
	Belgium	TWA	1.5 mg/m3 0.2 ppm 0.2 ppm	8 hours
Proprietary safety diluent		TWA, ACGIH	5 mg/m3	
Methyl ethyl ketone	USA	TWA, OSHA	200 ppm 200 ppm	
		TWA, ACGIH	200 ppm 200 ppm	
		STEL, ACGIH	300 ppm 300 ppm	
Hydrogen peroxide 35%		TWA, ACGIH	1 ppm 1 ppm	

No other exposure limits have been established

PERSONAL PROTECTION



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Respiratory protection

In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized., Supplied air respirator equipped with a full facepiece should be used during any operation where there is potential for release of this product to workplace air.

Hand protection / protective gloves

Neoprene type gloves.

Eye protection

Wear suitable eye protection., Faceshield, Safety goggles., 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Liquid
Color	Colorless to light yellow

OTHER PROPERTIES

Specific gravity (H ₂ O=1)	1.007 at 20 °C
Flash point	176 °F 80 °C Method: Setaflash closed cup ASTM D 3828
Autoignition temperature	Not available
Upper explosion limits	Not available
Lower explosion limits	Not available
Percent volatiles	< 3.0 %(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:

Promoters
Accelerators



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Reducing agents.
Strong acids.
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

Acute toxicity: Test substance: 9% AO MEKP
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
LC50 - Mouse
Result: 17 mg/l
Exposure time: 4 h

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.



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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

General: Burn in compliance with operative regulations in a hazardous waste incinerator.

US waste

Dispose of waste material in compliance with all federal, state, and local regulations., Hazardous waste ID number U160 & U102 (MEKP & DMP), see 40CFR261.33(f)

14. TRANSPORT INFORMATION

DOT Classification

Proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDES, =<45%)
Class: 5.2
UN ID #: UN3105
Packing group: II
Technical description METHYL ETHYL KETONE PEROXIDES, =<45%

IMDG Classification

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

ICAO Classification

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

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
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Methyl ethyl ketone peroxide	1338-23-4	
Methyl ethyl ketone	78-93-3	
Hydrogen peroxide 35%	7722-84-1	
Proprietary safety diluent	Trade secret	136411-5580P

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

Health: 3	Flammability: 2	Reactivity: 2	PPI:
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STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	0 (HMIS)
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

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