



# MATERIAL SAFETY DATA SHEET

Product name: HI-POINT® 90

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 1 of 9

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** HI-POINT® 90

**Chemical name :** Methyl ethyl ketone peroxides

**Supplier:** Crompton Corporation  
One American Lane  
Greenwich, CT 06831-2559, USA

**Emergency telephone number:** Crompton Corporation Emergency Response 903-938-5141  
CHEMTREC (24 hours) 800-424-9300

**For MSDS, Product Safety, or regulatory inquiries, call:** Mr. Anthony Andrews 903-938-5141

**Customer Service:** 877-948-2660

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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| 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 diluent    | -         | 26.0 - 30.0 % |

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## 3. HAZARDS IDENTIFICATION

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### APPEARANCE

**Physical state** Liquid  
**Color** Colorless to light yellow

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 2 of 9

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**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.

**POTENTIAL HEALTH EFFECTS****Swallowing****Acute effects**

Harmful or fatal if swallowed.

**Skin absorption****Acute effects**

May cause eye and skin irritation.

**Inhalation****Acute effects**

May be harmful by inhalation.

**Skin contact****Acute effects**

May cause allergic skin reaction.

**Eye contact****Acute effects**

May cause chemical burns of the eye.

**POTENTIAL ENVIRONMENTAL EFFECTS**

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.

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**4. FIRST AID MEASURES**

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**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,

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 3 of 9

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.

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**5. FIRE-FIGHTING MEASURES**

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**Flash point:** 80 °C**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
- CO<sub>2</sub>
- 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.

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**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.

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 4 of 9

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**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.

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**7. HANDLING AND STORAGE**

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**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).

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**PERSONAL PROTECTION**

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 5 of 9

**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

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.

**EXPOSURE LIMITS**

| <u>Component</u>              | <u>Type</u>    | <u>Value</u>          | <u>Remark</u> |
|-------------------------------|----------------|-----------------------|---------------|
| methyl ethyl ketone peroxides | Ceiling, ACGIH | 1.5 mg/m <sup>3</sup> |               |
| <u>Component</u>              | <u>Type</u>    | <u>Value</u>          | <u>Remark</u> |
| dimethyl phthalate            | TWA            | 5.0 mg/m <sup>3</sup> |               |

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

**Physical state** Liquid  
**Color** Colorless to light yellow

**OTHER PROPERTIES**

**Boiling point** Decomposition: 68°C  
**Specific gravity (H<sub>2</sub>O=1)** 1.072 at 25 °C  
**Flash point** 80 °C  
Method: Setaflash closed cup ASTM D 3828

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 6 of 9

**Kinematic viscosity**

15 cSt at 25 °C

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## 10. STABILITY AND REACTIVITY

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**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.

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## 11. TOXICOLOGICAL INFORMATION

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### SWALLOWING

**Test results**Acute toxicity:

Test substance: 9% AO MEKP

LD50 - Rat

Result: 1,017 mg/kg

### SKIN ABSORPTION

**Test results**

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 7 of 9

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

## INHALATION

### Test results

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

## SKIN CONTACT

### Test results

Skin irritation: Species: Rabbit  
Result: No data available.

## EYE CONTACT

### Test results

Eye irritation: Species: Rabbit  
Result: Corrosive.

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## 12. ECOLOGICAL INFORMATION

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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.

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## 13. DISPOSAL CONSIDERATIONS

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### 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)

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## 14. TRANSPORT INFORMATION

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### DOT Classification



# MATERIAL SAFETY DATA SHEET

**Product name:** HI-POINT® 90

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 8 of 9

**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  |                      |
| proprietary safety diluent    | -         |                      |

## 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

### FURTHER INFORMATION

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.

### HMIS RATING

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

### LEGEND



# MATERIAL SAFETY DATA SHEET

**Product name: HI-POINT® 90**

MSDS Number: 500000000563

Revision: 1.2 01/30/2001

Page: 9 of 9

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| 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 |

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