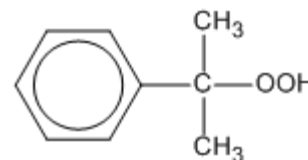


# LUPEROX<sup>®</sup> CU80

## Polymer Initiator

### Introduction and Applications

Luperox<sup>®</sup> CU80 polymer initiator is a versatile product that can be used as a thermal initiator or as part of a redox system. At operating temperatures of 150°C – 250°C, Luperox<sup>®</sup> CU80 polymer initiator can be used for polymerization of styrene and acrylic esters. Molded composites cured at room temperature using Luperox<sup>®</sup> CU80 polymer initiator with an accelerator will benefit from a lower peak exotherm. This is an advantage when making very large or thick composite articles.



### Product Description

Chemical Name	CAS-No.	Wt/Wt
cumene hydroperoxide	80-15-9	80-84%
cumene	98-82-8	≤ 13%
2-phenyl-2-propanol	617-94-7	≤ 10%

### Standard Specifications

assay	80.0 – 84.0%
active oxygen	8.40 – 8.82%
color, APHA	≤ 450

### Typical Physical Properties

SADT	180°F (82°C)
flash point	174°F (79°C)
freezing point	16°F (-9°C)

### Half-Life Data

Half-life can be defined as the time required at a specific temperature, to affect a loss of one-half of the peroxide's active oxygen content. The efficiency of a free radical initiator depends upon its rate of decomposition.

Time	Deg C	Deg F
10 hours	158	316
1 hour	188	370

Half-life data can be a useful guide in selecting the optimum initiator for a specific application. Several factors apply to half-life data obtained in dilute solution:

- Use only applies to thermolytic decomposition
- Half-life varies in different solvents due to induced decomposition if no radical scavenger is present

### Temperature Tolerance

**Do not store above: 30°C (86°F)**

**Do not store below: 0°C (32°F)**

### Shelf-Life

Luperox<sup>®</sup> CU80 has a shelf-life of 6 months from the date of Arkema delivery.

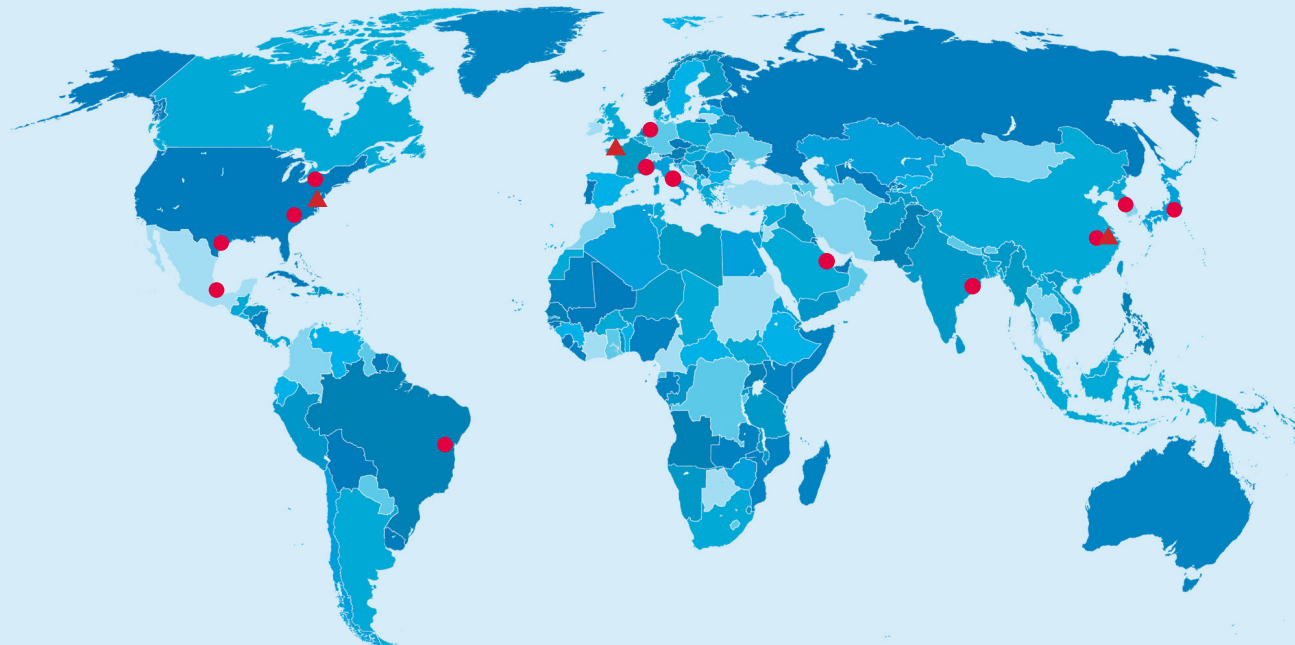
### Packaging

Luperox<sup>®</sup> CU80 is packaged in 5-gallon jerricans and 55-gallon drums.

### Availability

Luperox<sup>®</sup> CU80 is available in North America from Arkema and authorized distributors. To discuss availability or speak to a salesperson, please call 844-LUPEROX.

# LUPEROX® ORGANIC PEROXIDES WORLDWIDE



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+01 844 LUPEROX

[luperox.com](http://luperox.com)

**Arkema Inc.**  
900 First Avenue  
King of Prussia, PA 19406  
USA  
Tel.: (+1) 610 205 7000

**Arkema (China) Investment Co., Ltd. - Shanghai**  
6/F Block 1, Life Hub@Daning  
1868 Gonghexin Road  
200072 Shanghai, China  
Tel: (+86) 21 6147 6888

**Headquarters: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex - France  
Tel.: +33 (0)1 49 00 80 80  
Fax: +33 (0)1 49 00 83 96  
[arkema.com](http://arkema.com)

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