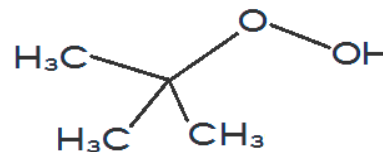


# LUPEROX® TBH 70X

## Polymer Initiator

### Introduction & Applications

Luperox® TBH 70X polymer initiator can be used in bulk, solution, and suspension polymerizations for the production of water-borne coating resins. Luperox® TBH 70X polymer initiator is also useful for very high temperature processing of polymers and crosslinking applications. Luperox® TBH 70X polymer initiator has high active oxygen content, and can be considered as a replacement to cumene hydroperoxides (CHP) and blends of CHP and methyl-ethyl ketone peroxides.



### Product Description

Chemical Name	CAS-No.	Wt/Wt
tert-butyl hydroperoxide	75-91-2	< 71%
water		< 31%

### Standard Sales Specification

active oxygen	12.25 – 12.61 %
assay	69.0 – 71.0 %
physical state	colorless to slightly yellow liquid

### Typical Physical Properties

SADT	88°C (190°F)
density	0.93 g/cm <sup>3</sup> 25°C (77°F)
melting/freezing point	-3°C (27°F)

### 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.

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

Time	Deg C	Deg F
100 hours	146.7	296.1
10 hours	172.3	342.2
1 hour	201.3	394.3
6 minutes	234.2	453.6
1 minute	263.3	505.9
1 second	343.9	650.9

### Temperature Tolerance

**Do not store above: 38°C (100°F)**

**Do not store below: -3°C (27°F)**

### Shelf-Life

Luperox® TBH 70X polymer initiator has a shelf-life of 6 months from date of original delivery, if stored below 30°C (86°F).

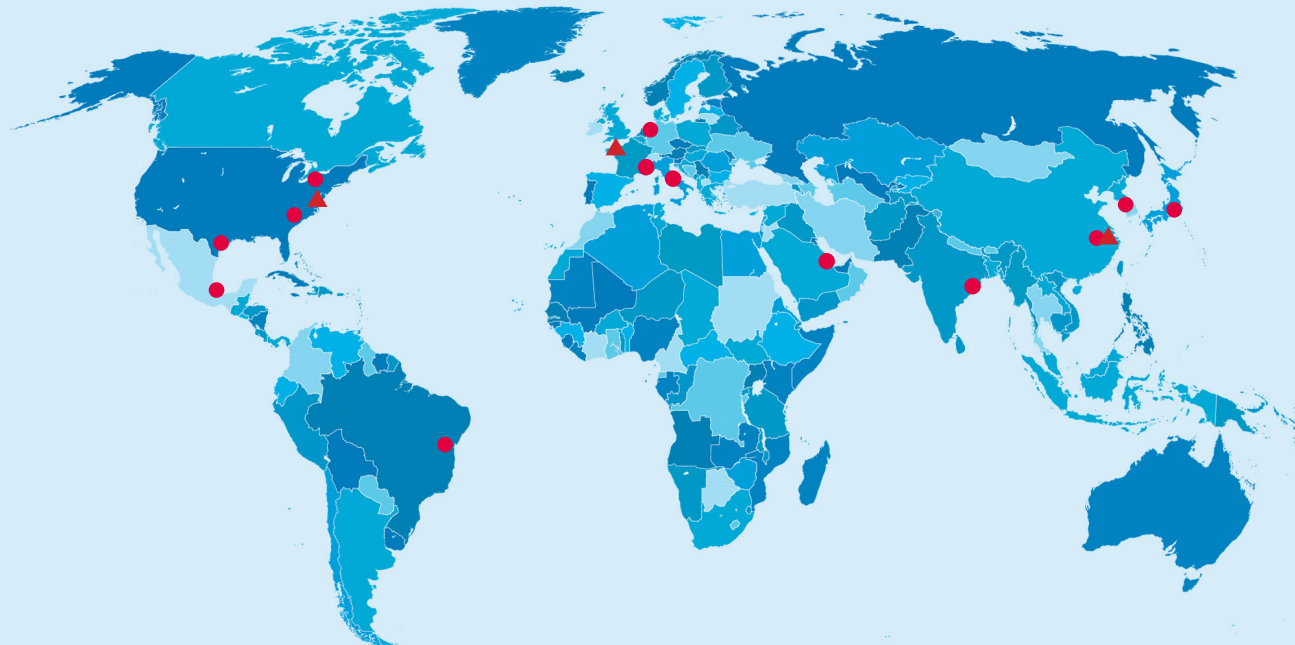
### Packaging

Luperox® TBH 70X polymer initiator is packed in:

- 410 lbs. 55-gallon drums
- 35 lbs. 5-gallon jerricans
- 2400 lbs. 330-gallon IBCs

### Availability

Luperox® TBH 70X polymer initiator is available in North America from Arkema and authorized distributors. To discuss availability or speak to a salesperson, please call 844-LUPEROX.



- Organic Peroxides Plants
- ▲ Research Centers

- Piffard, NY
- Franklin, VA
- Crosby, TX
- Coatza, MX
- Rio Claro, BR

- ▲ King of Prussia, PA

- Gunzberg, DE
- Spinetta, IT
- Anagni, IT
- Jubail, KSA
- Cuddalore, IN
- Jinhae, KR
- Fukuoka, JP
- Changshu, CN

- ▲ Pierre-Benite, FR
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