

SUPEROX[®] 46-763

DESCRIPTION

Superox[®] 46-763 is a solution of cumyl hydroperoxide in an accelerating phlegmatizer. The principal application for Superox[®] 46-763 is as a cure initiator for room temperature curing of vinyl ester and specialized unsaturated polyester resins. This product offers the following advantages.

- Moderate peak exotherm
- Excellent final (24 hr.) cure
- No gas/foam generation in vinyl ester resins

TYPICAL PROPERTIES

Active Oxygen.....	4.5 %
Form	Liquid
Color	Pale Yellow to Colorless
Flash Point (SETA C.C.).....	150°F/ 66°C, min.
Specific Gravity @ 25°/4°C	1.06
Soluble in.....	Oxygenated organic solvents
Slightly soluble in.....	Water

APPLICATION

The recommended use level of Superox[®] 46-763 is 1% to 3%, on weight of resin. Gel and cure times, as well as peak exotherm results, depending on the specific resin, can often vary compared to values obtained using standard MEKP formulations. The final (24 hr.) cure, however, can be much better. The following table compares the results obtained using Superox[®] 46-763 versus Superox[®] 46-748 (a high dimer MEKP formulation).

Resin:	Corrosion Resistant Vinyl Ester*
Promoter:	0.10% Cobalt Octoate + 0.05% DMA
Temperature:	77°F
Catalyzed @:	1.50% O.W.R.

Initiator	Gel Time	Peak Exotherm	Barcol Hardness @			
			3 hrs.	4 hrs.	5hrs.	24 hrs.
Superox [®] 46-763	16 min.	198°F	41(5)	50(5)	53(5)	14(4)
Superox [®] 46-748	13 min.	289°F	28(5)	35(5)	44(5)	53(5)

Results have been determined by Syrgis laboratory test methods and are used for comparison only. Not all resins will give similar results. Resin suppliers should be contacted for specific recommendations for individual resins.

SUPEROX[®] 46-763

STORAGE

- Storage at 80°F or below is recommended. Storage below 70°F is recommended for maximum shelf life.
- Store in original containers **away** from flammables and all sources of heat, sparks, or flames; out of direct sunlight; and **away** from **cobalt naphthenate**, other promoters, accelerators, oxidizing or reducing agents and strong acids or bases.
- **Leaking containers** – Remove and isolate in a safe area. Re-package or dispose immediately (see **spills**).
- **Never** store in refrigerators containing food and/or beverages.
- Consult National Fire Protection Association (NFPA) Code 432 and/or local regulatory agencies.
- Rotate stock, use oldest date first.

HANDLING

- Inform all personnel of procedures for safe handling and review MSDS with them.
- Remove from storage area only the amount needed for one shift.
- Wear safety glasses or goggles and chemical resistant gloves.
- Keep away from heat, flames, and sparks.
- Avoid breathing vapors.
- Dilution is not recommended.
- **Never** add peroxides directly to promoters or vice-versa, violent decomposition can occur.
- Prevent contamination such as contact with dust, over spray, wood, and combustible material.
- Avoid contact with materials other than polyethylene, polypropylene, Teflon®, Tygon®, or similar materials, glass or glass-lined steel, and 304 or 316 stainless steel or equivalent.

FIRST AID

- EYES – Flush immediately with large amounts of fresh water and continue washing for at least 15 minutes. **Medical attention is needed.**
- SKIN – Wash with soap and water.
- INGESTION – Administer large amounts of milk or water and call a physician immediately. Do not induce vomiting. As an aid to the physician, suggest calling your local Poison Control Center.

SPILLS

- Clean up immediately by absorbing with inert material – vermiculite or sand.
- After absorbing, moderately wet immediately with water and place in a clean plastic bag inside a plastic pail.
- Dispose of immediately in accordance with local, state, and federal regulations.
NOTE: Spilled peroxides, if not immediately cleaned up, can become contaminated and ignite or decompose in a hazardous, violent manner.

FIRE

- Peroxides ignite readily and burn vigorously with acceleration.
- Use water from a safe distance – preferably with a water-fog nozzle.
- For very small fires, an extinguisher with carbon dioxide, foam, or dry chemical may be effective.
- In case of fire in or near a storage area, cool stored containers with water spray.

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of Superox[®] 46-763 are cases of 4x8 lb. and 4x4 kg polyethylene bottles; and 40 lb. or 20 kg Hedpacks. For custom package sizes, please contact your local distributor or Syrgis Performance Initiators, Inc.
- Classification – Please refer to the specific Superox[®] 46-763 Material Safety Data Sheet under section 14, Shipping Description.
- Superox[®] 46-763 is available through a nation-wide distributor network. Call Syrgis Performance Initiators, Inc. for the name of the distributor in your area.

NOTE: MSDS's for all our products may be requested thru the website www.syrgisperformanceinitiators.com

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SYRGIS PERFORMANCE INITIATORS, INC.

334 Phillips 311 Road, Helena Arkansas 72342

Tel. (800) 786-6722 • Fax (800) 987-0845 • www.syrgis.com