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SUPEROX® 46-770

DESCRIPTION

Superox® 46-770 is a solution of methyl ethyl ketone peroxides and cumyl hydroperoxide in phlegmatizer. Superox® 46-770 is a liquid polymerization initiator for the room temperature cure of specialized unsaturated polyester and vinyl ester resins with the following advantages/properties.

- Low Peak exotherm
- Longer working time (gel time)
- Excellent final cure
- Eliminates in-plant mixing of peroxides
- Low impurity levels (water, hydrogen peroxide, MEK)

TYPICAL PROPERTIES

Active Oxygen	9.0 %, max.
Form	Liquid
Color	Pale Yellow
Specific Gravity @ 25°/4°C	1.10
Flash Point (SETA C.C.)	150°F/ 66°C, min.
Soluble in	Oxygenated Organic Solvents
Slightly soluble in	Water

APPLICATION

Superox® 46-770 is an excellent liquid polymerization initiator for the room temperature cure of unsaturated polyester and vinyl ester resins, when a low peak exotherm is desired. Gel times will be slower compared to standard Superox MEKP products (i.e. 46-701, 46-747, etc.), but final cured resin hardness is often better than for resins initiated with standard MEKP's.

RESIN: Marine Laminating (pre-promoted)*

Initiator	Gel Time	Peak Exotherm	Barcol Hardness @ 3 hrs.	5 hrs.	24 hrs.
Superox® 46-701	13.1 min.	349°F	55-60(5)	65-70(5)	10-15(4)
Superox® 46-753	40.1 min.	290°F	0-5 (D)	50-55(D)	20-25(4)
Superox® 46-770	29.7 min.	313°F	5-10(D)	55-60(D)	15-20(4)

Results determined by Syrgis laboratory test methods and are to be used for comparison, only.

Resin suppliers should be contacted for specific recommendations for individual resins.

SUPEROX® 46-770

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 dilute with acetone.
- **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® 46-770 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® 46-770 Material Safety Data Sheet under section 14, Shipping Description.
- Superox® 46-770 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

SYRGIS

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