

MEC

DESCRIPTION

MEC is a colorless solution of methyl ethyl ketone peroxide and cyclohexanone peroxide in phlegmatizer. MEC was developed to give excellent cure performance in low and average temperature conditions when used as an initiator with unsaturated polyester resins.

TYPICAL PROPERTIES

Active Oxygen	9.0 %, max.
Form	Liquid
Color	Water white
Specific Gravity @ 25°/4°C	1.12
Viscosity @ 25°C	18.0 cps
Flash Point (SETA C.C.)	170°F / 77°C, min.
Soluble in	Common organic solvents
Slightly soluble in	Water

APPLICATION

MEC should be considered for gel and cure initiation for cobalt promoted unsaturated polyester resins at low operating temperatures. MEC will also give good performance at normal temperatures. Other advantages, compared to standard MEKP formulations include:

1. Shorter gel to cure time in many resins.
2. Excellent smoothness and uniformity in the cure cycle.
3. Excellent storage stability because of the absence of impurities (water, hydrogen peroxide, unreacted methyl ethyl ketone and other diluents).
4. Enhanced performance with gel coats. (The hydrophobic nature of MEC provides improved mixing and resin compatibility).

RESIN: Ortho Laminating (pre-promoted)

Initiator	Gel Time	Peak Exotherm	Gel to Cure	Barcol Hardness @		
				3 hrs.	5hrs.	24 hrs.
Norox® MEKP-9	15.9 min.	328°F	71 min.	5(4)	15(4)	34(4)
Norox® MEKP-925	16.2 min.	336°F	76 min.	5(4)	7(4)	32(4)
MEC	14.9 min.	330°F	61 min.	6(4)	16(4)	34(4)

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

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

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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 MEC 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 MEC Material Safety Data Sheet under section 14, Shipping Description.
- MEC 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.noracperoxides.com

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