

SUPEROX[®] 46-744

Dibenzoyl Peroxide Liquid Dispersion

DESCRIPTION

Superox[®] 46-744 is a low viscosity, sprayable dispersion of dibenzoyl peroxide. Superox[®] 46-744 is specifically designed for use in “curing” unsaturated polyester and vinyl ester resins and offers the following advantages:

- Low water content
- Faster gel to peak than MEKP systems
- Lower exotherm than MEKP systems
- Less “packing” in spray equipment designed/modified for spraying dibenzoyl peroxide dispersions

Superox[®] 46-744 may also be used as a polymerization initiator for vinyl monomers, (e.g. styrene, acrylate, etc.).

TYPICAL PROPERTIES

Dibenzoyl Peroxide	40 %
Active Oxygen	2.64 %
Water Content	12 %
Color	White
Specific Gravity @ 25°/4°C	1.2
Viscosity (Brookfield HBT #4 spindle 50 rpm 25°C)	~1000 cps

APPLICATION

Superox[®] 46-744 is a low viscosity dispersion and may separate slightly on standing. It will remix easily and should be stirred immediately prior to use. Continuous stirring during use in spray equipment will maintain a uniform dispersion. Superox[®] 46-744 may be flushed from spray equipment using isopropanol, methanol or acetone followed by soap and water.

To successfully spray Superox[®] 46-744 through equipment normally used for MEKP, the catalyst delivery system **must** be modified. Spray equipment suppliers can recommend the proper modifications for their equipment.

Under normal spray equipment operating conditions, Superox[®] 46-744 should not be expected to separate and “pack” in the catalyst delivery systems. However, when the system is shut down for long periods of time (i.e. overnight), and there are no provisions to recirculate the Superox[®] 46-744, the catalyst section should be depressurized.

Dibenzoyl Peroxide Liquid Suspension

STORAGE

- Storage at 70°F or below is recommended. Protect from freezing.
- 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.
- **Damaged 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.
- **Never** add peroxides directly to promoters or vice-versa, vigorous to violent decomposition can occur.
- Do not return unused product to original container.

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 absorbent material. Moisten and sweep up using non-sparking tools and put 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 dry out and decompose or burn in a hazardous, violent manner.

FIRE

- When dry, Dibenzoyl Peroxide products ignite readily and burn vigorously.
- 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[®] Liquid Suspension Products are 45 lb. or 20 kg plastic pails or 440 lb. or 200 kg poly drums. Weights are on a net weight basis. For custom package sizes, please contact your local distributor or Syrgis Performance Initiators, Inc.
- Classification – Please refer to the specific Superox[®] Material Safety Data Sheet under section 14, Shipping Description.
- Superox[®] Liquid Suspension Products are 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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