

# SUPEROX<sup>®</sup> 46-762

## DESCRIPTION

Superox<sup>®</sup> 46-762 is a solution of peroxides in phlegmatizer. Superox<sup>®</sup> 46-762 was formulated for use in applications requiring a lower exotherm without significant sacrifice of gel time.

## TYPICAL PROPERTIES

Active Oxygen . . . . .	8.9 - 9.0 %
Form . . . . .	Liquid
Color . . . . .	Water white
Specific Gravity @ 25°/4°C . . . . .	1.15 – 1.17
Viscosity @ 20°C . . . . .	20 – 24 cps
Flash Point (SETA C.C.) . . . . .	160°F
Hydrogen Peroxide Content, % . . . . .	1.6
Monomer / Dimer Ratio . . . . .	Hi / Low
Soluble in . . . . .	Oxygenated organic solvents
Insoluble in . . . . .	Water

## APPLICATION

Superox<sup>®</sup> 46-762 may be used as any other standard MEKP to initiate the curing of pre-promoted unsaturated polyester resins. This product is particularly useful in then production of thick laminates in which high exotherms could produce cracking and warpage. As with any application, however, Superox<sup>®</sup> 46-762 should be thoroughly tested in the resin being used before full-scale manufacturing is attempted. Superox<sup>®</sup> 46-762 is not recommended for most vinyl ester resins.

The following comparative data was developed using a typical laminating resin:

Resin: Laminating @ 1.75% catalyst  
 Temperature: 68°F / 20°C  
 Mass: 30 grams

Superox Product	Time to Gel (min)	Time to Peak (min)	Peak Exotherm (°F/°C)	934 Hardness @ 24hrs.
46-709	80	105.5	122 / 50	46
46-762	85	98.5	98 / 37	44
46-753	160	171	87 / 31	40

(This data is for comparative use only. It will be necessary to test Superox<sup>®</sup> 46-762 in the specific resin under consideration.)

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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 Superox<sup>®</sup> 46-762 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<sup>®</sup> 46-762 Material Safety Data Sheet under section 14, Shipping Description.
- Superox<sup>®</sup> 46-762 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](http://www.syrgisperformanceinitiators.com)

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