w/o Catalyst for WEP

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NOROX® W-60*

Norox® W-60 is a clear colorless solution of methyl ethyl ketone peroxide in an aqueous plasticizer base.

SPECIFICATIONS AND TYPICAL PROPERTIES

Active oxygen	9.0% (maximum)
Form	Liquid
Color	Water white
Specific gravity @ 25°/4°C	1.08
Flash point (C.O.C.)	205°F (minimum)
Fire point	205°F (minimum)
Flash point (Seta closed cup)	170°F (minimum)
Soluble in	Ketones and alcohol
Moderately soluble in	Waters, esters
Insoluble in	Hydrocarbon solvents

COMMENTS**

Norox® W-60 is a polymerization initiator with particular application in the room temperature cure of polyester resins, particularly water extended resin systems. It differs in both physical properties and gel and cure characteristics from Norox® MEKP and offers the following advantages:

1. Norox® W-60 is self-extinguishing at room temperature and when heated sufficiently to ignite, does not initially burn with the rapid acceleration characteristics of most organic peroxides.

2. The gel and cure characteristics of polyester resins with Norox® W-60 are dependent on the promotion system employed.

   a. With single promoted (cobalt) resins marked reduction in gel time and cure are obtained. Excellent low temperature characteristics are observed.

   b. Resins promoted with cobalt and 2,4-pentanedione*** give very fast gels and cures.

   c. With double promoted resins (cobalt-dialkylaniline) at an initiator concentration of 1%, gel and cure times roughly equivalent to Norox® MEKP are obtained. At high concentrations longer gels and accelerated cures are usually observed. Some double promoted resins employing dimethylaniline have been observed to gas, particularly at higher concentrations.

STORAGE

Norox® W-60 should be stored in original closed container by itself, in a cool place, away from all sources of heat, sparks, flames, out of direct sunlight and apart from other flammable materials. Contamination with foreign materials, especially cobalt naphthenate, other promoters, accelerators and strong reducing agents may result in rapid or explosive decomposition. Never store in a refrigerator containing food or water. All personnel involved in the handling and storage must be informed of its properties and the procedures for safe handling.

* U.S. Patent 3,398,213

** Not to be construed as recommendations for violation of any patent.

*** U.S. Patent 3,584,076

Storage conditions should comply with local laws and be in accordance with the recommendations of the insurance carriers. Storage areas should be protected by deluge or sprinkler systems.

HANDLING

Norox® W-60 is a strong irritant and corrosive to the eyes. Ingestion can be fatal. Avoid swallowing and all contact with eyes and skin. Wash contaminated areas thoroughly with soap and water. For eyes, flush immediately (seconds count) for 15 minutes with water--call a doctor. If swallowed, take large quantities of milk or water and immediately call a physician. Do not induce vomiting. For aid to physician suggest local Poison Control Center or (213) 664-2121, day or night. Avoid breathing vapors. Respirators should be used when using a spray system.

Remove from storage only the amount of material immediately needed in the process area.

Safety glasses and gloves must be worn. During handling, great care should be exercised to prevent contamination. Never mix or allow contact of Norox® W-60 or similar compounds with cobalt compounds or other promoters and accelerators, resin sandings, hot solvents and monomers--violent decomposition and fire may result. Cover containers in spray area. Contact with wood or other combustibles under some conditions may cause fire. Contact with materials other than polyethylene, polypropylene, Teflon®, Tygon® or similar material, some silicone rubbers, glass or glass-lined steel and stainless steel should be avoided.

Although Norox® W-60 is self extinguishing or non-accelerating, it nevertheless should be handled with care.

Never confine Norox® W-60 in a pressure vessel unless protected by relief valves adequate to relieve the voluminous gases formed by accidental contamination or heat. Provide a sprinkler or deluge system to cool work area and containers in event of fire.

Used containers of Norox® W-60 should be drained thoroughly and flushed with water and mutilated by slitting before discarding.

Contaminated material should be disposed of immediately by one of the following methods: preferably at a hazardous waste facility, or by burning in an isolated open trench, ignited with a long pole, or by adding slowly, with good stirring, to an excess (20 times its weight) of 10% sodium hydroxide (caustic soda). The disposal technique selected should comply with local and federal regulations.

Spilled material should first be absorbed in a noncombustible material such as vermiculite or sand, dampened with water, and burned or decomposed as above. In an emergency, damp sawdust or sweeping compound can be used but must be immediately wet with water. Use only white clean rags to clean surfaces. Decontaminate the rags by soaking in soda ash solution at least 24 hours before discarding.

In case of fire, dilute with water from a safe distance--for large fires use a fog nozzle if possible. In case of very small fires other means such as extinguishers with carbon dioxide, foam or dry chemicals may be effective. However, it should be remembered that part of the oxygen for combustion is supplied by the peroxide itself. In case of fire near storage areas, cool the containers of Norox® W-60 with water spray.

SHIPPING

Norox® W-60 is packed in 1#, 8#, and 4 kg polyethylene bottles, cases of 4/8# and 4/4 kg bottles and 44# or 20 kg Hedpaks. It is shipped by freight only. DOT cautionary labels are not required.

The above recommendations are based on careful testing and observation of potential hazard and have in the past proved to be satisfactory safety procedures. However, The Norac Company makes no express or implied warranty of any kind concerning this product or its use, including any implied warranty of merchantability or fitness for a particular usage. Buyer assumes all risk and liability whatsoever resulting from the use or handling of this material. The Norac Company neither assumes nor authorizes any person to assume for it any liability in connection with the sale and use