

## NOROX<sup>®</sup> 605

### DESCRIPTION

Norox<sup>®</sup> 605 is the designation for technically pure dimyristylperoxydicarbonate in flake form. This long-chained aliphatic organic peroxide is used as a free radical source for the cure initiation of unsaturated polyester and vinyl ester resins and reactive monomer diluents, e.g. styrene.

### CHEMICAL STRUCTURE



Molecular Weight **514.7**

CAS No. **53220-22-7**

### TYPICAL PROPERTIES

Appearance .....	White, Greasy Flakes
Peroxide Content .....	97%
Active Oxygen .....	3%
Melting Point .....	113°F (45°C)
Half-Life Data .....	1 min. @ 194°F (90°C) 1 hr. @ 135°F (57°C) 10 hrs. @ 106°F (41°C)
SADT .....	95°F (35°C)
Recommended Storage Temp. ....	< 68°F (20°C)
Maximum Transport Temp. ....	< 68°F (20°C)

### APPLICATION

Norox<sup>®</sup> 605 is an excellent “kick off”, or low range initiator when used in a multi-component initiator system for polyester and vinyl ester resin curing. Norox<sup>®</sup> 605 can be used at levels from 0.50 to 1.30 parts per 100 parts of resin, depending on initial gel requirements for the specific resin and operating temperature and is particularly useful in CIPP applications.

The flake form of the product provides nearly dust free handling, but Norox<sup>®</sup> 605 should first be dispersed in styrene monomer before addition to the resin. It is highly recommended that Norox<sup>®</sup> 605 be dispersed by using equipment specifically designed for that purpose, to ensure proper, thorough mixing.

# NOROX<sup>®</sup> 605

## STORAGE

- Storage at 68°F (20°C) or below is recommended. This applies to the product as supplied. Peroxydicarbonates **in solution** are far more sensitive to heat than in the solid form. Their self-accelerating decomposition temperature (SADT) is in the range of 40°F to 60°F (5°C to 15°C), with the recommended storage temperature below 14°F (-10°C). Brief handling (dissolving, transferring, weighing) at ambient temperature can be tolerated.
- **KEEP NOROX<sup>®</sup> 605 BELOW 86°F (30°C) AT ALL TIMES. TEMPERATURES GREATER THAN 95°F (35°C) CAN LEAD TO VIGOROUS DECOMPOSITION AND FIRE.**
- 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 metal salts.
- **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

- Norox<sup>®</sup> 605 is a combustible oxidizing solid, which must be handled with care.
- Inform all personnel of procedures for safe handling and review MSDS with them.
- Remove from storage area only the amount needed for immediate usage.
- Wear safety glasses or goggles and chemical resistant gloves.
- Keep away from heat, flames, and sparks.
- Avoid breathing vapors.
- **Never** add peroxides directly to promoters or vice-versa, violent decomposition can occur.

## 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

- Soak spilled material with water. The addition of water will reduce the concentration of the peroxide and reduce its hazard potential.
  - Clean up immediately by absorbing with inert material – vermiculite or sand.
  - After absorbing, 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 Norox<sup>®</sup> 605, if not immediately cleaned up, can become contaminated and ignite or decompose in a hazardous, violent manner.

## FIRE

- Peroxides ignite readily and burn vigorously.
- For very small fires, an extinguisher with carbon dioxide, foam, or dry chemical (Class B extinguishers) may be effective.
- In case of a large fire. Evacuate the area immediately and fight the fire from a safe distance, using copious amounts of coolants and foam.

## PACKAGING, SHIPPING & AVAILABILITY

- The typical package size of Norox<sup>®</sup> 605 is one 44 lb. polyethylene bag inside a cardboard carton.
- Classification – Please refer to the specific Norox<sup>®</sup> 605 Material Safety Data Sheet under section 14, Shipping Description.
- Norox<sup>®</sup> 605 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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**SYRGIS PERFORMANCE INITIATORS, INC.**

334 Phillips 311 Road, Helena Arkansas 72342

Tel. (800) 786-6722 • Fax (800) 987-0845 • [www.syrgis.com](http://www.syrgis.com)