

WITCO CHEMICAL CORPORATION
U.S. PEROXYGEN DIVISION
P.O. Box 4003, 850 Morton Avenue
Richmond, CA 94804-0003

HMIS®

PRODUCT Esperox® 28PD

NFPA Hazard Rating:

(4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

Fire _____ Reactivity _____ Toxicity _____ Special _____

Emergency Telephones:

Manufacturers: Richmond: 415-233-5911 Marshall: 214-938-5141

CHEM TREC: 1-800-424-9300



SECTION I. IDENTIFICATION

1. Product name: Esperox® 28PD
2. Chemical name or family: tertiary-Butyl peroxy-2-ethylhexanoate
(Peroxyester)
3. Formula: $C_{12}H_{24}O_3$
4. Molecular Weight: 216.31
- 5.

SECTION II. CHEMICAL AND PHYSICAL PROPERTIES

A. CHEMICAL PROPERTIES

6. Hazardous Decomposition Products:
7. Incompatibility (Keep Away From):

Strong acids, bases, promoters, accelerators, readily oxidizables, and metal salts.

8. List All Toxic or Hazardous Ingredients, and Other Chemical Components:

tertiary-Butyl peroxy-2-ethylhexanoate, 50% CAS Registry No. 3006-82-4
Butyl benzyl phthalate CAS Registry No. 85-68-7

B. PHYSICAL PROPERTIES

9. Form: Liquid
10. Odor: Faint sweet
11. Appearance: Clear
12. Color: Water white

NA=Not Applicable NDA=No Data Available <=Less Than >=More Than UNK=Unknown

PHYSICAL PROPERTIES (cont.)

13. Specific Gravity (Water = 1): 0.990 at 20°C (68°F)
14. Boiling Point: NDA °C _____ °F at _____ mm Hg.
Decomposes >125°F
15. Melting Point: NDA °C _____ °F
16. Solubility in Water at _____ °C: _____ <1%
17. % Volatile (by wt. %): <1%
18. Evap. Rate (_____ = 1): NA
19. Vapor Pressure (mm Hg at 20°C): _____ NA
20. Vapor Density (air = 1): NA
21. pH as is: NDA pH (_____) _____
22. Strong Acid: _____
Strong Base: _____
Stable: X
Unstable: _____
23. Viscosity (centistokes) NDA at _____ °C (_____ °F)
24. Other Properties:

SADT 5 gal: 46.5°C (116°F)
1 gal: 53°C (127.5°F)

SECTION III. FIRE AND EXPLOSION DATA

25. Special Fire Fighting Procedures:

Fight fire with large amounts of water from safe distance. Keep containers cool with water spray. After fire, wait until the material cools to room temperature before starting clean up. Wear protective equipment to prevent smoke inhalation.

26. Unusual Fire and Explosion Hazards:

Once ignited, product will burn vigorously. Potential explosion hazards.

27. Flashpoint (Method Used): 66 °C 151 °F (Setaflash Closed Cup)

28. Flammable Limits %: NA
Lower _____ Upper _____

29. Extinguishing Agents:

Dry Chemical	<u>X</u>	Waterspray	<u>X</u>	Waterfog	<u>X</u>
Foam	<u>X</u>	Sand/Earth	_____	CO ₂	<u>X</u>
Other	_____				

SECTION IV. HEALTH HAZARD DATA

30. Permissible Concentrations (Air): NDA

31. Effects of Overexposure: NDA

HEALTH HAZARD DATA (cont.)

32. Toxicological Properties: NDA

33. Emergency First Aid Procedures:

- Eyes: Flush with water for 15 min. and consult a physician.
- Skin Contact: Wash immediately with soap and water; consult a physician if discomfort develops.
- Inhalation: Remove to fresh air. Consult a physician if discomfort persists.
- If Swallowed: Administer large quantities of water if person is conscious. Never give anything by mouth to an unconscious person. Immediately consult a physician.
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SECTION V. SPECIAL PROTECTION INFORMATION

34. Ventilation Type Required (local, mechanical, special): Mechanical
35. Respiratory Protection (specify type): NIOSH Approved
36. Protective Gloves: Chemically Resistant
37. Eye Protection: Chemical Splash Goggles or Face Shield
38. Other Protective Equipment: Protective Clothing
Note: Discard or wash contaminated clothing before reuse.
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SECTION VI. HANDLING OF SPILLS OR LEAKS

39. Procedures for Clean-up:

Absorb spills with inert material such as perlite, vermiculite, sand or dirt and then wet with water. Sweep up using non-sparking equipment and place in double polyethylene bags. Isolate leakers and contaminated containers to a safe place for disposal.

40. Waste Disposal:

Dispose of waste at EPA-approved hazardous waste disposal facilities. Disposal must be in compliance with federal, state and local regulations.

SECTION VII. SPECIAL PRECAUTIONS

41. Precautions to be Taken in Handling and Storage:

Store in original containers below 70°F away from promoters and combustible material. Keep away from heat, sparks, flames and direct sunlight. Keep closed to avoid contamination. Isolated storage is desirable.

SECTION VIII. TRANSPORTATION DATA

42. Unregulated by D.O.T.: _____
43. Regulated by D.O.T.: X
44. Transportation Emergency Information: CHEM TREC 1-800-424-9300
45. U.S. D.O.T. Proper Shipping Name:
tert-Butyl peroxy-2-ethylhexanoate, 50% in plasticizer
46. U.S. D.O.T. Hazard Class: Organic Peroxide
47. I.D. Number: UN 2888
48. RQ: NA
49. Label(s) Required: Organic Peroxide
50. Freight Classification: Chemicals, NOI, N.M.F.C. Item 43940 Sub 2
51. Special Transportation Notes: NA

SECTION IX. COMMENTS

Never mix any promoter or accelerator with product as very rapid or explosive decomposition could occur. Do not store together with food or drink. Storage at temperatures above 90°F will cause slow to moderate loss of purity. Never store above 120°F.

Signature _____ Title Vice President - Technical

Revision Date 2/25/86 Sent to Attn: _____ Date _____

Supersedes 2/1/85 _____

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