

**troy** CHEMICAL CORPORATION

March 30, 1972

Subject: Replacement of Lead Driers and Lead Feeder Driers in your Paints.

Dear Sir:

The directive to eliminate lead driers from coatings formulations does present problems to the paint chemist. Based on limited work, we have found that the substitution of calcium or zirconium, or combinations of these driers, will achieve satisfactory dry, though high levels may be required. However, the substitution of a lead-free feeder drier for the usual lead-containing type (i.e. litharge or Troykyd Ever-Dri) is a more difficult matter.

After considerable R & D and testing work, we have finally accomplished this. In fact, we developed a product which is far superior to both litharge and agents such as Troykyd Ever-Dri. Even in extremely severe cases such as carbon-black paints, and organic reds, it was considerably better than the old stand-bys. Though not completely free of staining, it is generally used at levels low enough so that staining is not a problem.

TROYKYD PERMA-DRY is an economical and effective loss of dry inhibitor and drier feeder, and we strongly recommend your obtaining a sample from us, and testing it yourself. An interim technical bulletin on TROYKYD PERMA-DRY is enclosed.

Try it - you'll like it!

Sincerely yours,

TROY CHEMICAL CORPORATION

Elias Singer
Elias Singer
President

ES/fl
encl.

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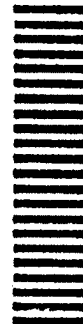


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TECHNICAL BULLETIN



TROYKYD PERMA-DRY (Lead Free Drier Absorption Agent)

PRODUCT: Troykyd PERMA-DRY is a Cobalt compound complexed with rare earth and alkaline earth metals.

Troykyd PERMA-DRY is a lead free feeder drier designed to replace the drier preferentially adsorbed by reactive pigments such as carbon black, organic reds, TiO_2 , etc., and to provide an adequate level of soluble drier upon aging of paints.

Troykyd PERMA-DRY is a lead free replacement for litharge, Troykyd Ever-Dri, and other materials used to overcome loss of dry. It should be used in all paints where loss of dry could develop on storage.

USE: The amount of Troykyd PERMA-DRY required to prevent loss of dry on aging of a paint will depend on the particular pigment vehicle system. High tone carbon black pigments will generally require the highest levels of Troykyd PERMA-DRY. Most paints will need 1-5 lbs. per 100 gallons of paint.

The amount to be used in whites should be kept to the minimum necessary to achieve drying stability (approx. 1-2 lbs. per 100 gals.). Excessive amounts may cause some graying, due to the high levels of cobalt and cerium metals present. Organic Reds and Carbon-Black paints may require 4-5 lbs. per 100 gals.

Troykyd PERMA-DRY will occasionally act to accelerate dry. An adequate level of anti-skinning agent should be used.

STORAGE: Since this paste will tend to thicken at lower temperatures, handling will be facilitated by keeping Troykyd PERMA-DRY in an area over 60°F.

SPECIFICATIONS: Appearance.....Viscous blue paste
Specific Gravity.....1.09 - 1.12
Weight per Gallon.....9.1 - 9.3 lbs.

PRICE: 5 Drums (450 lb.) (Open Head).....\$1.20/lb. F.O.B. Newark
Single Drums (450 lb.) (Open Head)....\$1.25/lb. "
5 Gal. Pails (45 lbs.).....\$1.35/lb.

PATENT APPLIED FOR

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our greatest product is service