LEAD INDUSTRIES ASSOCIATION
~~420 LEXINGTON AVENUE~~ 60 East 42nd St.
NEW YORK 17, N. Y.

Pigments and Chemicals Division

June 23, 1958

SUBJECT: RED LEAD TECHNICAL LETTER NO. 13

To Members of the Red Lead Technical Committee:

Enclosed please find two copies of the proposed Red Lead Technical Letter No. 13 - L.I.A. Formula 9-2, A Single Red Lead Primer for Rusted, Weathered or New Galvanized Steel.

Will you please look this draft over and indicate your approval, changes or corrections on one of the copies enclosed and return it to me as soon as possible?

If I do not hear from you by July 21, 1958, I will assume that the draft meets with your approval.

Sincerely yours,

David M. Borcina

David M. Borcina
Secretary, Red Lead Technical Committee

N2768

PROPOSED

June 23, 1958

A SINGLE RED LEAD PRIMER FOR RUSTED, WEATHERED OR NEW GALVANIZED STEEL

	Page
Foreword	2
Manufacturers of Red Lead	2
L.I.A. Formula 9-2	3

Red Lead Technical Committee

LEAD INDUSTRIES ASSOCIATION

60 East 42nd Street

New York 17, N.Y.

FOREWORD

An outstanding red lead-zinc dust-iron oxide primer for galvanized steel - a single primer for all galvanized surfaces whether rusted, weathered or treated new - has been developed as a result of field observations and research work conducted by the Red Lead Technical Committee of the Lead Industries Association.

Throughout a full six years of field investigations, Formula 9-2, described in this Technical Letter, has performed exceptionally well, surpassing all of the other red lead-containing formulations previously recommended by the Committee and in addition, out-performing primers not containing lead generally recommended for galvanized surfaces.

Formula 9-2 primer is ideally suited for maintenance painting of galvanized surfaces particularly where the condition of the surface area to be painted may vary from rusty to weathered to new. At last a single primer is available which will effectively protect galvanized surfaces against further deterioration regardless of their condition. It is effective as a primer to be exposed to the weather and as a base for any desired finish.

To insure good adhesion and to attain the most satisfactory protection with this primer on rusted galvanized surfaces, the rusted areas should be lightly wire brushed to remove loose rust followed by washing with clean mineral spirits. On new galvanized steel, the surface should be allowed to weather for 3 to 6 months or, if time does not permit, the surface should be chemically pretreated.

The Technical Committee has examined a number of commonly known pretreatment procedures and found, for example, that treatments with copper sulphate, acetic acid, or hydrochloric acid are ineffective. However, phosphate treatments such as Bonderite or Lithoform effectively etch the zinc surface and greatly improve the adhesion of the paint film.

Inquiries on this formulation or on specific painting problems are welcome and should be addressed to the Lead Industries Association or to the designated individuals in the cooperating companies listed below:

(COMPANIES WILL BE LISTED AS IN PREVIOUS TECHNICAL LETTERS)

L.I.A. FORMULA 9-2

A SINGLE RED LEAD PRIMER
FOR
RUSTED, WEATHERED OR NEW
GALVANIZED STEEL

Composition		Per Cent	Pounds	Gallons
PIGMENT:	Red Lead, 97% Grade	30.0	367.0	5.2
	Siliceous Iron Oxide, 85%, Fe_2O_3	15.0	193.0	5.2
	Aluminum Stearate	0.5	6.5	0.8
	*Zinc Dust (Federal Specification TT-Z-291)	54.5	705.0	12.0
		100.0		
VEHICLE:	Alkyd Resin Solution (Federal Specification TT-R-266, Type I, Class A)	65.0	367.0	46.5
	Mineral Spirits	34.2	193.0	29.7
	Lead Naphthenate (24%)	0.57	3.3	0.3
	Cobalt Octoate (6%)	0.23	1.3	0.2
		100.0	1856.1	99.9

Pigment by weight	69.6%
Vehicle by weight	30.4%
Wt./Gal.	13.1 lb. (without zinc dust)
PV	44.0%

*Zinc dust is to be packaged separately and mixed with paint at time of use.