

C O P Y

1/19: R.M. Thurston (enc)
Export(enc)
W. R. Fardue, Jr.
1/26: Dr. R. A. Kehoe(en)
Dr. Frank Princi
H. K. Ball

Mr. J. J. Frey

New York

C. D. Carter

Tokyo, Japan

TML approval--Japan

January 9, 1961
(Detroit 1-17-61)

Dear Julian:

Attached is a translation of the application by the Japan Petroleum Association for a revision of regulations to permit the use in Japan of TML, Lead Alkyls, AK-33X, and Motor 33 Mix. You might wish to have copies made for Export and others.

The Petroleum Association has advised that the authorities will permit the refiners to use TML immediately. The use of the other compounds will be approved "as soon as necessary data and test results are furnished." The revision of the regulation pertaining to TML will be approved by the Cabinet Council meeting on January 15 and the Government will announce the revision in its official Gazette on or about January 16. The revision becomes effective with the announcement.

We immediately gave this information to Stanvac in Tokyo who already had placed an additional order for 10 drums of TML. This revision of the regulations should get us TML orders from other companies such as Mitsubishi, New Asia, and Idemitsu.

The Petroleum Association has cooperated very closely with us on this so you will note that we have pre-eminence in the application compared to Du Pont and there is no mention of Associated Ethyl. I felt this might help our prestige in connection with getting Government approval for Mitsui-Ethyl Company. We were fortunate that the application was made by our old friends S. T. Kouchi, president of Mitsubishi, and M. Hamba, managing director of Maruzen; they also are president and vice president respectively of the Japan Petroleum Association and used their positions to help us.

Very truly yours,

CDC:cl
Att.

C. D. Carter

KE 0002926

N 6417

To the Minister of Welfare

NEW ANTIKNOCK COMPOUNDS and
REVISION APPLICATION for the
RELATED REGULATIONS

November 25, 1960.

SEKIYU RENMEI

S. TAKEUCHI, PRESIDENT

KE 0002927

"Tetraethyl Lead" has been only one agent for antiknock compound which has been marketed and used in Japan. In this circumstances, as you would know, TEL alone is exclusively listed up in the related regulations for such agent.

Recently, however, several kinds of new antiknock compounds became produced and marketed. Petroleum Refiners, by employing these new compounds collectively are eager to prepare for the galloping requirements for high octane numbers.

In the meantime, as these new commodities are reported to have the toxicity as poisonous as hitherto "Tetraethyl Lead", strict administrations on the handling of those agents will be required. Refiners should as well call the attention of the handlers and users of the gasoline containing new compounds.

For this reason, we refiners consider that the revision of the related regulations for the following new compounds is urgently desirable. We sincerely call your kind attention to the above arrangement.

Description

New Antiknock Compounds

- a. Tetramethyl Lead
- b. Mixed Lead Alkyl Compounds
- c. Methylcyclopentadienyl Manganese Tricarbonyl
- d. TEL-Motor 33 Mix (TEL+AK33x)

attached informations:

No.1 Outline description of New Compounds.

A. Titles and Chemical Formula

a) Tetramethyl Lead

TETRAMETHYL LEAD
 $\text{Pb}(\text{CH}_3)_4$

b) Alkyl Lead Mixtures

MIXED LEAD ALKYL COMPOUNDS
 (Ethyl Corp.)

TETRA MIX or TEL ALKYL LEAD
 (Du Pont)

c) AK-33X

METHYLCYCLOPENTADIENYL
 MANGANESE TRICARBONYL
 $(\text{CH}_3 \text{ C}_5 \text{ H}_4)_2 \text{ Mn}(\text{CO})_3$

d) TEL-Motor 33 Mix

TEL + AK-33X

B. Components

a) Tetramethyl Lead

Addition agent which composed mainly of
 $\text{Pb}(\text{CH}_3)_4$ simple substance.

b) Alkyl Lead Mixtures

Ethyl corporation manufacture three products;
 those are MIA-250, 500 and 750 as noted in the
 attached materials.

Whereas, Du Pont make only one, "Tetra Mix".
 For more details, see the makers' materials
 attached.

These products have the mixed components of;

$(\text{CH}_3)_4\text{Pb}$
 $(\text{CH}_3)_3\text{Pb}(\text{C}_2\text{H}_5)$
 $(\text{CH}_3)_2\text{Pb}(\text{C}_2\text{H}_5)_2$
 $(\text{CH}_3)\text{Pb}(\text{C}_2\text{H}_5)_3$
 $(\text{C}_2\text{H}_5)_4\text{Pb}$

3.

c) AK-33X

This is a kind of manganese compound which is sold by Ethyl Corporation in the type of compound containing TEL.

d) TEL-Motor 33 Mix

Compound commodity of TEL and AK-33X.

C. Toxicity

According to the makers' materials, the toxicity of these new compounds is almost as strong as that of TEL. Therefore, the handling of these is said to be subject to the handling of TEL.

D. Blending with Gasoline

Blending effect of these is as stable as in the case of TEL.

As to the maximum blending amount of TEL into gasoline, there exists an agreement between most governments in United States that the amount should be 1100 cc per gallon. This amount is considered to be decided from the comparison of lead contents with TEL, rather than from the difference of toxicity (cf. makers' materials).

All these new compounds declare that they have higher blending effect than TEL. That means consumption can be less when blended into gasoline.

No.2 Titles of new compounds

In the case of "Tetraethyl Lead" which is the additive of simple substance, the name of the substance itself could be used for the commodity.

This time, however, when compounds of different substances can be marketed and, furthermore, mixtures of them can be commercialized, single name of the substance can not be used as the title of the commodity.

For this reason, it will be necessary to stipulate legal names which stand for these mixed compounds generally. For instance, the followings could be proposed for the legal names of new lead alkyl compounds as well as manganese compounds.

4.

- a) METAL ALKYL COMPOUND
- b) METAL ALKYL ANTI-KNOCK COMPOUNDS

No.3 Related Regulations

- a) Regulations for the control of poison and
violents. (Ministry of Welfare)
- b) Enforcement ordinance of the above.
- c) Safety-guard regulations against Tetraethyl
Lead. (Ministry of Labour)
- d) Customs Tariff Law
(Ministry of Finance)
- e) Tentative Action Law of Customs
- f) Shipping and Storage Regulations for dangerous
cargoes (Ministry of Transportation).
- g) Port Administration Law
(Ministry of Transportation)

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