Polarmery 29, 1952

Mr. T. K. Smith, Jr.

5t. Louis

Approved by the surgeon general 10/14

AGREEMENT RETYREN THE U.S. PUBLIC MANAGEMENTS OF STATEMENTS OF STATEMENTS AND CHLORINATED DIFFERENT AND CHLORINATED DIFFERENT OFFICE AND

You naked about the second item in this signed agreement which we quote as follows:

"As Jurthey evidence of cooperation, the manufacturer agrees to insert in all bills of sale the following notations

Whis product is sold under direct agreement with the U.S. Public Health Service and if re-sold as such or in mixtures thereof for further fabrication within the United States, it is necessary that such products be labelled by you as follows:

"This package contains (Name of Product)

AVOID REPEATED CONTACT WITH THE SKIN AND LURALATION OF THE FUNES AND DUSTS."

Attached is original and duplicate invoice blank showing that our bills of onle do not enery the notation as given in the second part of the object moted above. It would be most difficult to understant, have any of our brail or customers could comply with this appearant, and to site one snample, we mention Plattics Film Corporation. Here Arcelor 1254 is used as one of the component plantichours in the film which Plastics Film Corporation then sell to various fabricators for fabrication. This, of course, represents resale of Arcelors in mixture with other ingredients in vinyl, and would appear to come under the letter of the agreement. However, as a result of this transaction Flastics Film Corporation would not be interested in stamping their vinyl film with our Arcelor varning label.

The wording of our iroslor label about handling is relatively mild, yet, in a few instances we know that people not familiar with chemical products have mis-interpreted it to an unjustifiable extent. On the other hand, in the very few instances where misuse of Aroslor (especially at elevated temperatures) has led to law buits, it was highly desirable and protective to us in having our current label on the Aroslor packages.

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Since the wording of the label was formulated and put into use, skin patch tests run under competent medical supervision indicated that Arcelors are neither skin irritants nor skin sensitiers. This is indicated in our literature, but of course is not intended to mean that people should bathe in Arcelor. There are instances in the commercial use of Arcelor where people have immorsed their arms up to the elbow, day in and day out, in the liquid Arcelors, and of course we do not approve of this, and to avoid such misuse of Arcelor, the wording on our label to avoid repeated contact with the skin seems highly significant. Back in 1930 or thereabouts, when the Arcelor applications were relatively fow and the customers about equally few, there was indeed the prize application of using Arcelor 1254 as a chewing sum plasticizer. The wording of our label would not be compactible with this sort of thing.

Since so many of the new Arcolor applications involve their use at elevated temperatures, the vording of the varning label to avoid inhalation of fumes is especially significant. We constantly keep this factor in mind in our development work, and emphasize it in direct contacts as well as indirect contacts such as our literature. While the toxicity hazard of Arcolor's fumes is well established and should be thoroughly understood by all, yet, as we go along we find that we are always confronted with violations in one degree or another, and indeed, regard keeping in touch with these things to be a major responsibility in the premotion of Arcolors.

Structly locaking, the marter of inhaling Arcolor dusts might be delicted about the varning intel, as surely most of the commonly used Arcolors cortainly are not dusty, and the perfect enterials such as Arcolor 1260 and 1270 and 1271 are reported in the literature as being of a relatively low order of toxicity. This item on dust may apply in the case of unloading a drum of Arcolor 5460.

Referring to the few deaths, and the relatively large number of some or dermatitis cases arising during the var, in connection with fabricators of Navy cable coating materials using a mixture of Arcelor 4465 and Halowax, there are two things to keep in mind. One is that this combination of chlorinated hydrocarbons is more toxic than the chlorinated biphanyl or terphanyls alone; and secondly, in this program of operations, proper working facilities and cleanliness were overlooked. In fact, the workers! wives at home even acquired acue and dermatitis which was traced back to the halogenated hydrocarbon compounds.

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In the light of the immediate above, it is interesting to keep in mind that we are currently selling at least two and one-half million pounds a year of, particularly, Arcelor 5460; but also some Arcelor 4465 for hot melt impregnation of sabestos wound wire, and also as impregnating agents used in the construction of Mayr cable.

In the part, when the texicology of Arcelors may not have been particularly will understood, this factor was certainly a heavy loud to a. . I the development of these products. The subject remains not ble ensiest one in the world to understand, but in view of the large stake that we now have in the rather widespread communcial use of Arcelors, we constantly strive to learn more about this subject of Arcelor texicology and to safeguard against any possible hazards.

P. G. Benignus

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