



UNION CARBIDE CORPORATION 39 OLD RIDGEBURY ROAD, DANBURY, CT 06817-0001

November 13, 1992

Mr. Boule Hussain Mouloud
Benizid Collo
Skikda
ALGERIA

Mr. Mouloud:

Your inquiry about vinyl chloride monomer and polyvinyl chloride has been forwarded to me.

Union Carbide does not manufacture polyvinyl chloride or vinyl chloride monomer. Nevertheless, I am enclosing some general information about these two substances.

Also enclosed is information from Ms. Priscilla Stanley on residual vinyl chloride monomer in vinyl chloride copolymer coatings.

I hope you find this information helpful.

Very truly yours,

Marvin R. Huffman
Manager
Toxicology Information Services

MRH/pf

Mouloud

UCC 107952



UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC. P. O. Box 670, Bound Brook, NJ 08805
PRISCILLA B. STANLEY
FDA/USDA Liaison

TELEPHONE: (908) 563-5444
FAX: (908) 563-5035

TO: M. R. Huffman - DB E3

November 3, 1992

CC: J. J. Behen - TT
G. J. Dembowski - DB K4
C. B. Mallon - BB
R. C. Wise - DB K3

RE: Residual Vinyl Chloride Monomer Inquiry from Algeria

Enclosed is a proposed response for the inquiry from Algeria that we discussed by phone yesterday. The inquiry requested information on "toxic effects from Residual Vinyl Chloride Monomer in food and from PVC bottles." As we discussed, Union Carbide does not manufacture PVC bottles, and thus we have no information in this area.

Union Carbide does manufacture UCAR Solution Vinyl Resins, which are vinyl chloride copolymers used in food and beverage can coatings. I have modified a letter that I had prepared for our domestic customers to produce a "Status Report" for your inquirer. You might wish to use this report as a basis for the conclusion that our finding of non-detectable levels of Residual Vinyl Chloride Monomer (<5 ppb RVCM) in coatings would be expected to permit only toxicologically insignificant migration of RVCM into food, if in fact any RVCM is present to migrate to food.

Please call me at 8-422-5444 if you have any questions on the enclosed Status Report.

P. B. Stanley

Attachments

Tox Profile (ATSDA)

9262- OHS - VCM

Enc OHS - PVC

*PC + PVC - summary
from Encyclopedia
of OH + S*

UCC 107953

UNION CARBIDE STATUS REPORT

RESIDUAL VINYL CHLORIDE MONOMER IN "UCAR" SOLUTION

VINYL RESINS USED IN FOOD CONTACT APPLICATIONS

UCAR Solution Vinyl Resins are used in vinyl coatings on the interior of certain types of food and beverage cans. This report summarizes the results of analyses of several UCAR Solution Vinyl Resins for Residual Vinyl Chloride Monomer (RVCM).

In 1986, Union Carbide analyzed a series of UCAR Solution Vinyl Resins, both as supplied to our customers, the coating formulators; and as finished coatings dried under typical commercial conditions. In some cases, coatings formulations were deliberately spiked with vinyl chloride monomer to elucidate the fate of residual vinyl chloride monomer in the coating.

Residual vinyl chloride monomer (RVCM) was not detected in five of the six different UCAR Solution Vinyl Resins, tested in the form in which they would be shipped to a customer. The analytical method used in this study had a threshold of detection of 3 ppb RVCM (ASTM D-4443-84).

Residual vinyl chloride monomer was not detected in any of the films made from the same six solution UCAR Solution Vinyl Resins, using the same analytical method having a 3 ppb threshold of detection.

In 1992, analyses were carried out on eight UCAR Solution Vinyl Resins, as supplied to our customers. This study included all of the eight different UCAR Solution Vinyl Resins that we know to be used in can coating applications in the United States intended for food contact use.

Residual vinyl chloride monomer was not detected in any of the eight different UCAR Solution Vinyl Resins by a slightly modified analysis method having a threshold of detection of 5 ppb RVCM.

Union Carbide believes that the results of our various studies support the conclusion that there is no reasonable expectation of migration of residual vinyl chloride monomer to food when using UCAR Solution Vinyl Resins in coatings and film applications. This conclusion is based on our determination of no detectable vinyl chloride monomer in finished coatings at a detection threshold of 3 ppb. The absence of detectable RVCM in a spiked film that was air dried at ambient temperature for 20 hours provides a strong indication that RVCM is not a concern in commercial interior can coatings dried at elevated temperature.

MR: Boule KH SAIN Nouloud
Benizi d collo
SIKIDON
ALGERIA

Rep. chemical division
Union Carbide Corp,
Danbury
CT. 06871-0004
USA.

Objed: demand of information and admission

I would be very greatful if you accept my demand
of admission.

I inform you that I born in collo on 02.4.1964

I have worked in a laboratory of plastics analysis and
control for two years

Now I am preparing a master on the toxicological
effect of vinyl chloride monomer gas in food and
in poly(vinyl chloride) bottles

looking forward to heard from you soon.

Signature

BK

UCC 107955