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UNION CARBIDE
FORMAMIDE

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OFFICE OF TOXIC SUBSTANCES
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REV. 7/27/82

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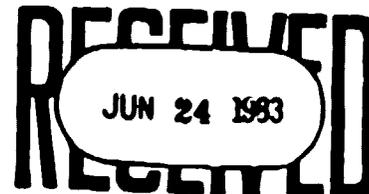
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**CERTIFIED MAIL
RETURN RECEIPT
REQUESTED**

UNION CARBIDE CORPORATION OLD RIDGEBURY ROAD, DANBURY, CT 06817
Corporate Health, Safety and Environmental Affairs Department

June 28, 1983



U.S. Environmental Protection Agency
TSCA 8D-1
P.O. Box 2060
Rockville, Maryland 20852

Subject: Union Carbide TSCA Sec. 8(d) Report
40 CFR 716.6 & 716.7

Sirs:

With respect to:

Chapter I of Title 40 of the Code of Federal Regulations;
Subpart A, Secs. 716.6 and 716.7;
As amended 716.17(a)(3), Federal Register Vol. 48, p. 13181,
March 30, 1983;
Sec. 8(d), Pub. L. 94-469, Stat. 2029 (15 U.S.C. 2607 (d));

Union Carbide Corporation herewith submits the attached copies of studies and lists of studies in compliance with the above-identified regulation.

There is no information in the enclosed copies of studies or lists of studies for which Union Carbide asserts claims of confidentiality. The printed words "BUSINESS CONFIDENTIAL" or "Confidential" at the top of pages for some reports was for the internal guidance of Union Carbide personnel at the time of report issuance and does not represent a Union Carbide Corporation claim for confidential handling of the information, submitted pursuant to TSCA Sec. 8(d) rules.

Where some lines are deleted from certain reports, especially earlier ones, it is solely due to the fact that the deleted information pertains to chemicals or substances other than those for which reporting is required under the above rule. Union Carbide has included copies and lists of studies for only those chemical substances that are members of categories which it has manufactured or processed since 1972. Union Carbide Corporation believes that the enclosed copies of studies and lists of studies represent all of the studies which Union Carbide's file search has identified to date as reportable under the above-identified rule. Should any reportable studies be discovered subsequently, they will be forwarded immediately.

The Environmental Protection Agency and other appropriate government agencies are free to use the enclosed information as necessary in the normal discharge of their mandated responsibilities. However, identified authors, whether employees of Union Carbide or elsewhere, or their organizations are the rightful owners of the publication rights to the contained information.

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U.S. Environmental Protection Agency
Page 2

If you have questions concerning the enclosed reports and lists of studies or wish to request further basic underlying data pertinent to the studies, please contact me or Dr. Donald L. Heywood (203-794-5224) of this Department.

Very truly yours,

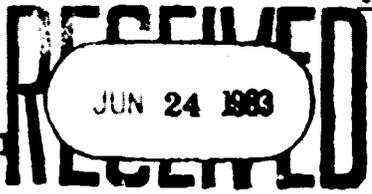

Jackson B. Browning, Director
Health, Safety and Environmental
Affairs (203) 794-5227

JBB/DLH/cr
Enclosure

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Formamide
3.a.

878218679



Confidential
Report 6-84

R: 10-27-43
LHS 10/27/43

MELLON INSTITUTE OF INDUSTRIAL RESEARCH
UNIVERSITY OF PITTSBURGH
SPECIAL REPORT
on
THE TOXICITY OF FORMAMIDE

Carbide and Carbon Chemicals Corporation Industrial Fellowship No. 274-6

The sample of formamide was received 8-5-43 from the S. Charleston research laboratory.

Single Dose by Mouth

Formamide was fed as a solution in water, 1 ml. of which contained 0.10 gm., made fresh each day. One gm./kg. killed 1 of 6 rats in 7 days and 10 gm./kg. killed 5 of 6 the day of dosing. The LD₅₀ is therefore close to 3.2 gm./kg. Death was due to digestive tract irritation with bloody urine and liver injure. Details appear in Table 6-68.

Single Dose by Skin Absorption

The sample was too scant to test skin absorption but the oral toxicity is too low to fear great hazard from skin penetration.

Saturated Vapors

Vapors substantially saturated at room temperature did not kill any rats following 8 hours inhalation. Only slight evidence of nose irritation was seen but autopsy revealed some lung irritation with kidney and liver effect.

Local Action

Formamide produced corneal necrosis in the rabbit eye when 0.1 ml. was applied, putting it in Grade 2 of our rating system.

On the rabbit belly the undiluted sample produced no erythema or other effect.

C & C C C, I.F. #274-6

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Report 6-84

Summary

Single oral doses formamide to rats resulted in an LD₅₀ of about 3.2 gm./kg., putting it in our Grade 3, similar to such materials as "Cello-solve", and "Cellosolve" acetate.

Skin penetration was not studied but it cannot be any acute hazard.

Single inhalation of vapor are no hazard, skin contact does not result in irritation although dermatitis from sensitization is a possibility, and the hazard of eye injury is low.


SENIOR INDUSTRIAL FELLOW

Henry F. Smyth, Jr. - rmg

T: October 27, 1943

CERTIFICATE OF AUTHENTICITY

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