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Document Title
INITIAL SUBMISSION: TOXICOLOGICAL PROPERTIES AND INDUSTRIAL HANDLING HAZARDS OF (1) BROMOCHLOROMETHANE; (2) METHYLENE CHLORIDE; (3) FLUX OIL; AND (4) BOTTOMS FROM DBDPO PROCESS

Chemical Category
BROMOCHLOROMETHANE

TOXICOLOGY RESEARCH LABORATORY DOW CHEMICAL U.S.A.

FILE RET K-0047298-(22,23,24,25)

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J.Catenacci Bromine Prods, 440	8274	October 29, 1974	47298 74-97-5

TOXICOLOGICAL PROPERTIES AND INDUSTRIAL HANDLING HAZARDS OF: (1) BROMOCHLOROMETHANE (CUT 6) (K-47298-23); (2) METHYLENE CHLORIDE FOR RECYCLE (K-47298-25); (3) FLUX OIL (POLYETHYL BENZENE ALSO CALLED "DOG LEG FORWARD OIL" (K-47298-22); AND (4) BOTTOMS FROM DBDPO PROCESS (K-47298-24)

REPORTED BY: K.J. Olson and P.A. Keeler CHECKED BY: L.W. Rampy

INFORMATIVE SUMMARY WITH CONCLUSIONS BASED ON THE SAMPLE RECEIVED. ADDITIONAL INFORMATION INCLUDING THE EFFECTS OF REPEATED EXPOSURE MAY BE REQUIRED AS SPECIFIC USES AND FORMULATIONS ARE DEVELOPED OR IF PROCESS CHANGES OCCUR.

The subject samples were submitted to the Toxicology Research Laboratory for the following evaluations:

1.	Acnegenic potential	All materials
2.	Acute oral toxicity	Flux oil
3.	Skin irritation	Flux oil
4.	Eye irritation	Flux oil

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RESULTS

I. Acnegenic Potential

The materials were evaluated for acnegenic potential by applying small amounts to the inner surface of the rabbit's ear daily, 5 days/week for 4 weeks. Methylene chloride and bromochloromethane were applied undiluted. The Flux oil and bottoms were applied as 10% and 5% solutions in chloroform, respectively. All samples were negative on this test except the bottoms, which showed a moderate potential for producing acne. It is important that care be taken to avoid skin contact with the still bottoms. Protective gloves and clothing should be worn while handling in cases where skin contact can occur. The Industrial Hygiene section should be contacted for assistance in setting up an appropriate handling and surveillance program.

II. Toxicity of Flux Oil (K-047298-22)

As stated above, Flux oil appears not to possess acnegenic properties.

The material is low in single-dose oral toxicity and should pose no problem from ingestion incidental to industrial handling.

Flux oil, undiluted, is essentially nonirritating to the eye. Direct eye contact would be expected to produce no significant reactions. Minimal eye protection is recommended for industrial handling largely to avoid discomfort from possible exposure.

The undiluted material is moderately irritating to the skin. A simple prolonged exposure might produce redness and a superficial burn. Such exposure should be avoided. Protective clothing should be worn during industrial handling when the likelihood of skin contact exists In the event of skin contact, immediate washing with soap and water should avert any significant skin problems.

There was no indication from the rabbit skin irritation study that the material is absorbed through the skin in acutely toxic amounts.

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