

US EPA ARCHIVE DOCUMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: August 1, 1978

SUBJECT: Kathon LP Caswell# 613C E.P.A. Reg: 707-104

FROM: William Dykstra, Ph.D
Toxicology Branch

TO:

John Lee (22)

WJD 8/2/78

Registrant: Rohm & Haas Company
Independence Mall West
Philadelphia, Pennsylvania 19105

Action Type: Application for Amendment to change First Aid Statement

Re: Ingestion

Recommendations:

1. The proposed first aid statement for ingestion is toxicologically supported. The new label first aid for ingestion is "If swallowed, induce vomiting by immediately giving two glasses of water to drink and sticking finger in throat. Call a physician. Never give anything by mouth to an unconscious person".

Review

1. Exhibit 12.07 A Summary table of Acute Toxicology submitted with application for registration of Kathon LP.
2. Exhibits 12.07B + 12:07C Food and Drug Research Labs., Inc. October 5, 1973; Ref# -3784-855
Exhibit 12:07B
Test material: Rohm & Haas preservative LP1001 (Kathon-LP) 6-2360 -09 Amber liquid.

a. Acute Oral toxicity

One group of six rats received 5.0 gm/kg of test material. Observation for 7 days.

Results

All animals died within day 1.

Toxic signs: Diarrhea, lethargy
Gross Necropsy: Severe gastro-intestinal inflammation.

Classification: Supplementary Data.

b. Acute Dermal toxicity

Six rabbits received 2.0 gm/kg on fur dipped trunk under an impervious cuff. One half of animals were abraded. Observation for 7 days.

Results

Abraded animals died on day 1 (1), 5(1) and 7(1). No deaths with unabraded skin.

Toxic signs: Severe erythema and edema on application site, lethargy and anorexia.

Necropsy: No abnormalities.

Classification: Supplementary Data

c. Acute Inhalation

Skin rats exposed to 202 mg/l for one hour. Observation for 7 days.

Results:

All rats died on Day 1

Toxic Signs: Decreased motor activity, respiratory distress.

Necropsy: Not performed.

Classification: Supplementary Data.

d. Eye Irritation; core minimum DATA: TOX CATEGORY I: DANGER

Exhibit 12.07C

a. Corrosivity Study in Rabbits. (Cannon Labs. No. E-9866, Dec. 29, 1973).

Test material; #6-2360, Preservative LP-1001 Kathon-LP.

0.5 ml of test material was applied to intact skin sites on fur dipped trunks of six albino rabbits under an impervious cuff for 4 hours. Observation and scoring at 4, 24 & 48 hours after exposure.

Result: P.I. = 0.2., slight erythema in 3/6 intact skin at 4 hours. No irritation at 24 hours.

Classification: Supplementary Data.

A. Present First Aid for Ingestion:

"If swallowed drink promptly a large quantity of milk, egg whites gelation solution or if these are not available drink large quantities of water. Avoid Alcohol. Call a physician immediately. Note to physician: probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

B. Proposed First Aid Statement for Ingestion:

Ingestion: If swallowed, induce vomiting by immediately giving two glasses of water and sticking finger in throat. Call a physician. Never give anything by mouth to an unconscious person. Note to physician is unchanged.

Risk Analysis based on Review

The proposed first aid statement for ingestion is toxicologically supported by necropsy examination of rats which indicated that death was associated with severe gastro intestinal inflammation within the first day after ingestion. Vomiting may decrease the possibility of death from ingestion. If also appears that systemic toxicity from ingestion is related to prolonged gastro-intestinal contact. The present first aid statement advises that the victim ingest a large quantity of milk, egg whites, gelaton solution or drink large quantities of water. These first aid statements only dilute out the stomach contents and may not be as effective a first aid as vomiting. Therefore, Toxicology Branch concurs with the registrants' request to change the first aid statement for ingestion. The proposed change is toxicologically supported.

HED:init: Reto Engler 8/1/78
gjl

 8/14/78