ACUTE TOXICITY IN MICE

COMPOUND: 3-Hydroxy-3-methylbutanoic acid (Tur 13)

SOURCE: Lorillard - Organic Chemistry LORILLARD NO.: OR39-23 LOT NO.: A4

DATE RECEIVED: Unk. TESTED: 12/28/78 REPORTED: 5/3/79 10/6/80, Update

INVESTIGATOR(S): H. S. Tong & M. S. Forte' NOTEBOOK/PAGE: BIO14-23

SIGNATURE(S): H. S. Tong M. S. Forte (by A. Poole)

STRAIN OF MICE: Swiss-Webster MALE: X FEMALE: ____ DATE RECEIVED: Unk.

AVERAGE WEIGHT/RANGE (GM): ____ SOURCE: Camm Research

ROUTE OF COMPOUND ADMINISTRATION: ☒ P.O. ☐ I.P. ☐ I.V. ☐ INHALATION

COMPOUND VEHICLE: ☒ .5 % METHYL CELLULOSE ☐ CORN OIL ☐ SALINE ☐ OTHER ____

GROUP NO.	% SOLUTION	DOSAGE (mg/kg BODY WEIGHT)	RESULTS (NO. DEAD/NO. TESTED)
1	5	1800	1/6
2	10	2160	0/6
3	10	2592	0/6
4	10	3732	3/6
5	10	4479	6/6

REFERENCE FOR CALCULATION: Litchfield, J. T. and Wilcoxin, F., J. of Pharmacol. and Exper. Ther., 90:99, 1948.

LD50 (95% CONFIDENCE LIMITS): 3.5 (3.1 to 3.9) g/kg

CONCLUSION: This compound appears to act as a CNS depressant with symptons of respiratory depression, constriction of blood vessels, and inactivity. Survivors recovered in 48 hours. The recommended safe dose for a single trial by inhalation in man is 0.3 mg.

Copies to the Following: Dr. H. J. Minnemeyer
Ms. L. B. Gray

00040534