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TR-422 Coumarin

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Target Organs and Levels of Evidence NTP Technical Report Number 422

Produced from Chemtrack Database 09/19/01

CHEMICAL/ CAS NUMBER	PEER REVIEW DATE	PRIMARY USES	ROUTE/EXPOSURE LEVELS	STUDY LABOR.
COUMARIN 91-64-5	06/23/92	ODOR ENHANCING AGENT IN PERFUMES. PHARMACEUTIC AID (FLAVOR). (TDB)	Gavage R: 0,25,50,100; M: 0,50,100,200 MG/KG/60 & 70 PER RESPECTIVELY	American Biogenic (Bioassay Systems)

LEVELS OF EVIDENCE OF CARCINOGENICITY--ORGAN/TISSUE (NEOPLASM):

MR: SOME EVIDENCE	KIDNEY TUBULAR CELL: ADENOMA 1/49 2/50 2/51 1/50, STEP SECTIONS 0/49 4/50 5/51 4/50
NON-NEOPLASTIC LESIONS:	LIVER: CYTOLOGIC ALTERATIONS; FIBROSIS; NECROSIS; BILE DUCT HYPERPLASIA FORESTOMACH: ULCER PARATHYROID GLAND: HYPERPLASIA KIDNEY: INCREASED SEVERITY OF NEPHROPATHY
FR: EQUIVOCAL EVIDENCE	KIDNEY TUBULAR CELL: ADENOMA 0/49 0/50 0/50 2/49, STEP SECTIONS 0/49 0/50 1/50 1/49
NON-NEOPLASTIC LESIONS:	LIVER: FIBROSIS; NECROSIS; DEGENERATION;

BILE DUCT HYPERPLASIA
FORESTOMACH: ULCER
KIDNEY: INCREASED SEVERITY OF
NEPHROPATHY

MM: SOME EVIDENCE LUNG: ALVEOLAR/BRONCHIOLAR ADENOMA
14/50 8/50 14/50 24/51 OR
ALVEOLAR/BRONCHIOLAR CARCINOMA 1/50
1/50 2/50 1/51 COMBINED 14/50 9/50 15/50 25/51

MAY HAVE BEEN RELATED: FORESTOMACH: SQUAMOUS CELL
PAPILLOMA 2/50 8/50 2/50 0/51

NON-NEOPLASTIC LESIONS: LIVER: SYNCYTIAL ALTERATION;
CENTRIOBULAR HYPERTROPHY;
EOSINOPHILIC FOCUS

FM: CLEAR EVIDENCE LUNG: ALVEOLAR/BRONCHIOLAR ADENOMA
2/51 5/49 7/49 20/51 OR
ALVEOLAR/BRONCHIOLAR CARCINOMA 0/51
0/49 0/49 7/51 COMBINED 2/51 5/49 7/49 27/51

LIVER: ADENOMA 8/50 26/49 29/51 12/50

MAY HAVE BEEN RELATED: FORESTOMACH: SQUAMOUS CELL
PAPILLOMA 1/52 5/50 2/51 2/51

NON-NEOPLASTIC LESIONS: LIVER: SYNCYTIAL ALTERATION;
CENTRIOBULAR HYPERTROPHY;
EOSINOPHILIC FOCUS

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