

G015
1,2-Butylene Oxide [106-88-7]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
1,2-Butylene Oxide	106-88-7	HECTOXCARC Carcinogenicity	National Toxicology Program (NTP)	rats	inhalation, 6 hr/d, 5 d/wk, 103 weeks	0, 200, 400 ppm	50 male 50 female	Clear evidence of carcinogenicity in male rats as shown by an increased incidence of papillary adenomas of the nasal cavity, alveolar/bronchiolar carcinomas, and alveolar/bronchiolar adenomas or carcinomas (combined). Equivocal evidence of carcinogenicity in female rats as shown by the presence of papillary adenomas of the nasal cavity. Exposure was associated with adenomatous hyperplasia and inflammatory lesions of the nasal cavity.	NTP TR-329, March 1988, NTIS PB88-216262/AS
1,2-Butylene Oxide	106-88-7	HECTOXCARC Carcinogenicity	National Toxicology Program (NTP)	mice	inhalation, 6 hr/d, 5 d/wk, 103 weeks	0, 50, 100 ppm	50 male 50 female	No evidence of carcinogenicity in male or female mice at either dose level. Exposure was associated with inflammatory lesions of the nasal cavity.	NTP TR-329, March 1988, NTIS PB88-216262/AS
1,2-Butylene Oxide	106-88-7	HEDSEN Sensitization study (Voluntary test)	Non-TSCA Protocol/Guideline (docket OPTS-42049)	guinea pigs	dermal, 4x at 48 hr intervals; challenged 14 days later	Not specified	10 (males)	Following a 2 week rest period, test animals received a challenge dose of an unspecified amount of test material. Observations revealed that there was no sensitization reaction in any of the test animals when compared to controls.	49 FR 18779; 5/2/84 OTS0507304