

1 物質番号

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| 通し番号 | C-1101 |
| 整理番号 | 131 |
| MITI番号 | |
| CAS番号 | 106-92-3 |
| 物質名 | アリルグリシジルエーテル |
| 英名 | Allyl glycidyl ether |

2 発がん性分類

| 機関名 | 分類結果 | 評価年 | 評価書引用文献 |
|-------|------|------|--|
| IARC | × | - | - |
| EPA | × | - | - |
| NTP | × | - | - |
| ACGIH | A4 | 1990 | U.S. National Toxicology Program: Toxicology and Carcinogenesis Studies of Allyl Glycidyl Ether (CAS No. 106-92-3) in Osborne-Mendel Rats and B6C3F1 Mice (Inhalation Studies). NTP TR 376. DHHS (NIH) Pub. No. 90-2831. NTP, Research Triangle Park, NC (1990). |
| 産衛学会 | × | - | - |
| EU | 3 | -1* | -1* |

*EU分類の根拠資料は公開されていない。

3 発がん性に関する追加文献(動物試験、疫学調査)

追加文献の有無 有

(1) 動物試験

| #1 | 試験概要 | 試験物質 | | 試験の種類 | ガイドライン | GLP適用状況 | 試験実施年 | 試験実施者 |
|----|--------|--|----------------|---------------------|------------|---------|-------|---------|
| | | 動物種 | 系統 | 動物数/性別/群 | 投与経路 | 用量/濃度 | 単位 | 投与/暴露期間 |
| | | rat | Osborne Mendel | 50/both sexes/group | inhalation | 5, 10 | ppm | 24 mo |
| | 試験結果概要 | <p>発がん影響 Three primary nasal neoplasms (1 papillary adenoma, 1 squamous cell carcinoma, and 1 olfactory epithelial carcinoma) were observed in rats. Although the incidence of primary nasal tumors in AGE-exposed rats or mice was not statistically significant compared to the incidence in concurrent controls, the relative rarity of primary nasal tumors in historical controls and the concurrent presence of metaplastic and hyperplastic nasal lesions similar to those reported to be associated with induced tumors of nasal epithelia by other chemicals suggest that the nasal tumors observed may be related to AGE exposure. exposed to 10 ppm AGE, and 1 nasal papillary adenoma was observed in a rat exposed to 5 ppm.</p> <p>非発がん影響 Squamous metaplasia and hyperplasia of the respiratory epithelium and degeneration and regeneration with subsequent squamous and/or respiratory metaplasia of the olfactory epithelium were observed in many AGE-exposed animals.</p> <p>結論 Inhalation exposure to AGE for 24 months resulted in equivocal evidence of carcinogenicity for male rats, and no evidence of carcinogenicity for female rats.</p> | | | | | | |
| | 文献名 | Renne RA. Morphology of nasal lesions induced in Osborne-Mendel rats and B6C3F1 mice by chronic inhalation of allyl glycidyl ether. Toxicol Pathol. 1992;20(3 Pt 1):416-25. | | | | | | |

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| #2 | 試験概要 | 試験物質 | | 試験の種類 | ガイドライン | GLP適用状況 | 試験実施年 | 試験実施者 |
| | | | | Chronic exposure effect study | | | 1992 | |
| | 試験条件 | 動物種 | 系統 | 動物数/性別/群 | 投与経路 | 用量/濃度 | 単位 | 投与/暴露期間 |
| | | mouse | B6C3F1 | 50/both sexes/group | inhalation | 5, 10 | ppm | 24 mo |
| | 試験結果概要 | 発がん影響 | Four papillary adenomas and 2 hemangiomas were observed in the noses of mice exposed to 10 ppm AGE. Although the incidence of primary nasal tumors in AGE-exposed rats or mice was not statistically significant compared to the incidence in concurrent controls, the relative rarity of primary nasal tumors in historical controls and the concurrent presence of metaplastic and hyperplastic nasal lesions similar to those reported to be associated with induced tumors of nasal epithelia by other chemicals suggest that the nasal tumors observed may be related to AGE exposure. | | | | | |
| 非発がん影響 | | Squamous metaplasia and hyperplasia of the respiratory epithelium and degeneration and regeneration with subsequent squamous and/or respiratory metaplasia of the olfactory epithelium were observed in many AGE-exposed animals. | | | | | | |
| 結論 | | Inhalation exposure to AGE for 24 months resulted in some evidence of carcinogenicity of AGE for male mice, and equivocal evidence of carcinogenicity for female mice. | | | | | | |
| 文献名 | Renne RA. Morphology of nasal lesions induced in Osborne-Mendel rats and B6C3F1 mice by chronic inhalation of allyl glycidyl ether. Toxicol Pathol. 1992;20(3 Pt 1):416-25. | | | | | | | |

(2)疫学調査

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| #1 | 調査の種類 | 調査方法 | 結果の概要 | 調査実施年 | 調査実施者 |
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| | 文献名 | | | | |