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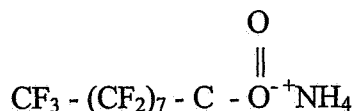
HASKELL LABORATORY

Common Name: Ammonium Perfluorononanoate

Chemical Name: Nonanoic acid, heptadecafluoro-, ammonium salt

CAS Registry No.: 4149-60-4

Chemical Structure:



Physical Properties:

Form:	White, dusty powder; Detergent-Like Odor
Molecular Weight:	481
Boiling Point:	-----
Melting Point:	Sublimes
Specific Gravity:	Bulk Density (Loose) = 0.49 kg/L
Vapor Pressure:	-----
Conversion Factors:	-----

Recommended AEL

0.01 mg/m³ (8-hour TWA)

General Toxicity

Ammonium perfluorononanoate (C-9) has moderate acute oral toxicity with an LD50 in rats of 407 mg/kg (██████████ 1984). No information is available on its effect of the skin or eyes of animals. By the acute inhalation route, is C-9 also moderately toxic with a 4-hour ALC in the rat of 590 mg/m³ (██████████ 1985a; ██████████ 1989).

In a 14-day feeding study in mice, increased liver weight was seen at as low a dose as 1 ppm (0.12 mg/kg/day) (██████████ 1985b). Liver changes were also seen in rats acutely exposed to as low a concentration as 67 mg/m³ (██████████ 1985a; ██████████ 1987). Liver effects were also produced by a similar compound, ammonium perfluorooctanoate (C-8) (██████████ 1981).

Carcinogenic Potential

No information is available.

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Mutagenic Potential

In the Ames *Salmonella* bioassay, C-9 was not mutagenic ([REDACTED] 1984).

Developmental/ Reproductive Toxicity

No information is available.

Basis for AEL

The toxicity of C-9 was compared to that of C-8. Both compounds appear to produce similar toxic effects at similar dose levels. Based on a NOAEL of 1 mg/m³ in a subchronic inhalation study in rats, an AEL of 0.01 mg/m³ (8-hour TWA) was established for C-8. Based on analogy to C-8, the same 0.01 mg/m³ AEL was recommended for C-9.

C-9 was updated in 1991, 1996, and again in 2001. No additional toxicity information was found.

References

[REDACTED] Data (1984). Letter dated May 9, 1984, [REDACTED] to [REDACTED] (C-3564).

DuPont Co., Haskell Laboratory:

1981. [REDACTED] HL-205-81.
1985a. [REDACTED] HL-293-85.
1985b. [REDACTED] HL-401-85.

[REDACTED] Kennedy, G. L., Jr. (1987). Toxicol. Lett., 39:295-300.

Kinney, L. A. et al. (1989). Food Chem. Toxicol., 27:465-468.

[REDACTED]
October 10, 1985

Updated by:

[REDACTED]
March 12, 1991

[REDACTED]
August 19, 1996

[REDACTED]
January 12, 2001
[REDACTED]

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