



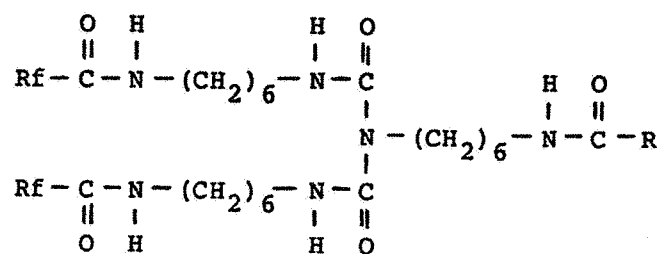
HASKELL LABORATORY

Common Name: Telomer B Carbamate

Chemical Name: Reaction product of hexamethylene diisocyanate biuret with alpha-fluoro-gamma-hydroxyethyl-poly(difluoromethylene) and 3-chloro-1,2-propanediol (37.7% aqueous dispersion)

CAS Registry No.: None

Chemical Structure:



where $\text{Rf} = \text{CF}_3 - (\text{CF}_2)_x - \text{CH}_2 - \text{CH}_2 - \text{O}-$,

$x = 5, 7, 9, \text{ or } 11$, and $\text{R} = \text{Rf}$ or

$\text{Cl} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{CH}_2 - \text{O}-$

Physical Properties:

Form:	Milky dispersion
Molecular Weight:	1570 to 1760
Boiling Point:	-----
Melting Point:	-----
Density:	1.17 g/mL

Recommended AEL

1 mg/m³ (8-hour TWA), respirable particulate

General Toxicity

Telomer B Carbamate has very low acute oral toxicity with an ALD in the rat of 25 grams/kg (DuPont, 1983d, 1983e). When applied to rabbit skin, slight irritation occurred (DuPont, 1983b, 1983c). Instillation into the rabbit eye produced mild to moderate conjunctival irritation (DuPont, 1983a). By the acute inhalation route of exposure, Telomer B Carbamate has a 4-hour ALC in the rat of 76-80 mg/m (DuPont, 1986a, 1986b, 1986c).

In a ten-day subchronic study, groups of rats were exposed six hours a day to 5.2, 22 or 58 mg/m³. No adverse effects occurred in any group (DuPont, 1986d).

Basis for AEL

The relationship of Telomer B Carbamate and Telomer B Citrate Urethane (TBCU) was also considered. In a similar ten-day subchronic study, TBCU had a NOEL of 2.5 mg/m³ (DuPont, 1984). Based on this NOEL, an AEL of 0.1 mg/m³ (8-hour TWA) was recommended for TBCU. A similar safety factor was applied to the NOEL of 58 mg/m³ for Telomer B Carbamate and an AEL of 1 mg/m³ (8-hour TWA), respirable particulate recommended.

Telomer B Carbamate was updated in 1990, 1995 and again in 2000. No additional information was found.

References

DuPont Co., Haskell Laboratory Data:

- 1983a. MR-4975-1, HL-422-83.
- 1983b. MR-4975-1, HL-472-83.
- 1983c. MR-4975-1, HL-473-83.
- 1983d. MR-4975-1, HL-488-83.
- 1983e. MR-4975-1, HL-489-83.
- 1984. MR-4932-1, HL-143-84.
- 1986a. MR-7272-1, HL-2-86
- 1986b. MR-7272-1, HL-11-86
- 1986c. MR-7272-1, HL-22-86.
- 1986d. MR-7344-1, HL-230-86.

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October 23, 1985

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