

Chlorodifluoromethane (クロロジフルオロメタン)

Chemical Name:	Chlorodifluoromethane
Synonym	Flon 22
	Methane, chlorodifluoro-
Molecular weight:	86.5
Melting point:	-146°C
Boiling point:	-40.8°C
Chemical Structure	
	$C\ell HCF_2$
CAS No :	75-45-6
MITI No :	(2)-93
Source of Substance:	Daikin Kogyo Co., Ltd.
Lot. No. :	
Purity:	
Vehicle:	Air

Judgement for
Chromosomal Aberration in CHL: Negative

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (%)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
						Gap	CTB	CTE	CSB	CSE	Total		Judge
											-G	+G	
Air	24		100	1.0	—	0	0	0	0	0	0	0	—
	48		100	0	—	0	0	0	0	0	0	0	—
Test Chemical													
	24	40	100	2.0	—	0	0	0	0	0	0	0	—
		60	100	0	—	0	0	0	0	0	0	0	—
		80	100	2.0	—	0	0	0	0	0	0	0	—
		100	100	0	—	0	0	0	0	0	0	0	—
	48	40	100	0	—	0	1.0	0	0	0	1.0	1.0	—
		60	100	0	—	0	0	0	0	0	0	0	—
		80	100	0	—	0	0	2.0	0	0	2.0	2.0	—
		100	100	1.0	—	1.0	0	0	0	0	0	1.0	—
Positive Control (Methylchloride)													
	24	2.0	100	0	—	2.0	2.0	8.0	1.0	0	11.0	12.0	+
	48	1.5	100	1.0	—	5.0	8.0	0	0	1.0	18.0	20.0	+

Experimental Data

S 9 with or without	Concent- ration (%)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								Judge
					Gap	CTB	CTE	CSB	CSE	Total			
										-G	+G		
Air	-	200	0	-	0	0	0	0	0	0	0	0	-
	+	200	0	-	0	0	0	0	0	0	0	0	-
Test Chemical													
	-	40	200	0.5	-	0.5	0	0	0	0.5	0.5	1.0	-
		60	200	0.5	-	0	0	0	0	0	0	0	-
		80	200	0.5	-	0	0	0	0	0.5	0.5	0.5	-
		100	200	3.0	-	0	0	1.5	0	0	1.5	1.5	-
		40	200	2.0	-	0	0	0	0	0	0.5	0.5	-
		60	200	3.0	-	0	0	0.5	0	0	0.5	0.5	-
		80	200	2.0	-	0	0	0	0	0	0	0	-
		100	200	1.0	-	0	0	0.5	0	0	0.5	0.5	-
Positive Control													
(Methyl chloride)													
	-	4.0	200	1.5	-	2.5	17.5	57.0	0.5	0.5	58.5	60.0	+
(Vinyl chloride)													
	+	2.5	200	0.5	-	1.5	5.0	17.0	0	0	19.0	20.0	+