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℃
Boiling point: -40.8℃

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 Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
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	Concentration (%)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
Air	−		200	0	−	0	0	0	0	0	0	0	−
	+		200	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	+