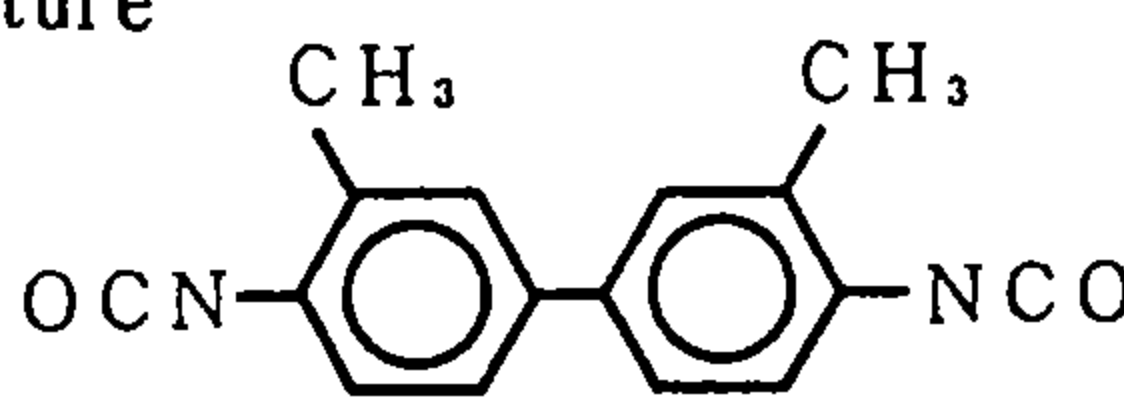


3,3'-Dimethyl-4,4'-biphenylene diisocyanate (3,3'-ジメチル-4,4'-ビフェニレンジイソシアナート)

Experimental Data

Chemical Name: Synonym	Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
											Total		Judge
						Gap	CTB	CTE	CSB	CSE	-G	+G	
3,3'-Dimethyl-4,4'-biphenylene diisocyanate	24		200	0	—	0	0.5	0	0	0	0.5	0.5	—
4,4'-Diisocyanate-3,3'-dimethyl-1,1'-biphenyl Isocyanic acid, 3,3'-dimethyl 4,4'-biphenylene ester o-Tolidine diisocyanate	48		200	0	—	0.5	0	0.5	0	0	0.5	1.0	—
Molecular weight: 264.29	Test Chemical												
Melting point: 19.6 °C	24	0.1	200	1.0	—	0	0	0	0	0	0	0	—
Boiling point: 195-197°C		0.2	200	0	—	0	0	0.5	0	0	0.5	0.5	—
Chemical Structure		0.3	200	1.5	—	1.5	0	1.0	0	0	1.0	2.5	—
		0.4	200	1.5	—	2.5	2.5	1.5	0	0	3.0	5.0	±
CAS No : 91-97-4		0.5				No observation for metaphase							
MITI No : (4)-33	48	0.1	200	0	—	0.5	0	0	0	0	0	0.5	—
Source of Substance: Nippon Soda Co., Ltd.		0.2	200	0	—	0	0	1.5	0	0	1.5	1.5	—
Lot.No. :		0.3	200	2.0	—	0	0	1.0	0	0.5	1.5	2.0	—
Purity: %		0.4	200	2.0	—	0.5	0.5	1.0	0	1.0	2.5	2.5	—
Vehicle: DMSO		0.5				No observation for metaphase							
	Positive Control												
	(MMC) 24	0.00008	200	0	—	2.5	6.0	34.0	0	0	38.5	39.0	+
	48	0.00008	200	1.5	—	2.0	9.0	44.5	0	0.5	49.0	50.0	+

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge		
					Gap	CTB	CTE	CSB	CSE	Total				
										-G	+G			
DMSO	-	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-		
	+	200	0.5	-	1.5	0	0	0	0	0	1.5	-		
<b>Test Chemical</b>														
	-	0.2	200	0	-	0.5	0	0	0	0	0.5	-		
		0.3	200	0	-	0	0	0.5	0	0	0.5	-		
		0.4	200	0.5	-	0	0	0	0	0	0	-		
		0.5	200	6.0	±	1.5	0.5	3.5	0	0	3.5	4.5	-	
		0.6				No observation for metaphase								
		+	0.2	200	0	-	0.5	0.5	0	0	0	0.5	1.0	-
			0.3	200	1.0	-	1.0	0	0	0	0	1.0	-	
			0.4	200	0.5	-	1.0	0	0.5	0	0	0.5	1.5	-
			0.5	200	1.5	-	2.0	1.5	1.5	0	0	2.5	4.0	-
			0.6	177	2.8	-	5.1	2.3	6.2	0	0	7.9	11.3	+
<b>Positive Control (B(a)P)</b>														
	-		200	1.0	-	1.0	0	0	0	0	1.0	-		
	+		200	0.5	-	5.5	4.0	27.5	0	0	29.0	31.0	+	