

Pigment green 7

Toxicological Data on the Unburnt Ingredient

[+ve, positive; -ve, negative; ?, equivocal
with, with metabolic activation; without, without metabolic activation]

In vitro

Test system	Test conditions	Endpoint	Activation status	Results	Reference
Chinese hamster lung (CHL/IU) cells	Cells incubated for 6 hours +S9, or 6, 24 or 48 hours -S9, with 14832-14-5 at ≤ 0.5 mg/ml [or possibly ≤ 5 mg/ml] and analysed for chromosome aberrations and polyploidy. Good quality study conducted to OECD Guideline 473 and the Japanese Guidelines for Screening Mutagenicity Testing of Chemicals.	Chromosome damage and changes in chromosome number	With and without	-ve	Hatano Research Institute, undated; Kusakabe et al. 2002; Mitsubishi Chemical Safety Institute Ltd., undated
<i>Salmonella typhimurium</i> strains TA98, TA100	Ames test, using pre-incubation protocol, at ≤ 10 mg/plate. Molecular formula of $C_{32}Cl_{14}H_2CuN_8$ (NTP, 1985). Purity 94%, impurities not specified (IUCLID, 2000).	Mutation	With and without rat or hamster liver S9	+ve in TA98 with S9 -ve in all other cultures	NTP, 1985; Zeiger & Margolin, 2000; Zeiger et al. 1988

<i>Salmonella typhimurium</i> strains TA98, TA100, TA1535, TA1537 and <i>Escherichia coli</i> strain WP2 uvrA	Ames test, using pre-incubation protocol, with 14832-14-5 at ≤ 5 mg/plate (but only up to 0.625 mg/plate for TA98, TA100, TA1535, TA1537 -S9). Good quality study conducted according to OECD Test Guideline 471 and the Japanese Guidelines for Screening Mutagenicity Testing of Chemicals.	Mutation	With and without	-ve	Hatano Research Institute, undated; Mitsubishi Chemical Safety Institute Ltd., undated; Office of Environmental Chemicals Safety Environmental Health Bureau, 1995
<i>Salmonella typhimurium</i> strains TA98, TA100, TA1535, TA1537	Ames test, using standard plate incorporation and pre-incubation protocols, with 1328-53-6 at ≤ 5 mg/plate. Conducted to OECD Guideline 471.	Mutation	With and without	-ve	BASF, 1988
<i>Salmonella typhimurium</i> strains TA1535, TA1538	Ames test, using pre-incubation protocol at 10 μ g. Very limited study using only one extremely low concentration. As data on mutant frequencies not shown, no independent assessment of the result could be made.	Mutation	With and without	-ve [limited study]	Milvy & Kay, 1978

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