Criteria for Carcinogenicity Toxicity (Quantitative Analysis)

NIOSH Banding Criteria for **Cancer**			
Exposure/ Dosing Route	**Band**		
	C	**D**	**E**
Slope factor	< 0.01 (mg/kg-day)$^{-1}$	≥ 0.01 to < 10 (mg/kg-day)$^{-1}$	≥ 10 (mg/kg-day)$^{-1}$
Inhalation unit risk	$< 3 \times 10^{-6}$ (µg/m^3)$^{-1}$	$\geq 3 \times 10^{-6}$ to < 0.01 (µg/m^3)$^{-1}$	≥ 0.01 (µg/m^3)$^{-1}$
TD_{05}	> 5 mg/kg-day	> 0.005 to ≤ 5 mg/kg-day	≤ 0.005 mg/kg-day
TC_{05}	> 16700 µg/m^3	> 5 to ≤ 16700 µg/m^3	≤ 5 µg/m^3

Criteria for Carcinogenicity Toxicity (Qualitative Analysis)

Classification	***Band***	***Determinant Score***
National Toxicology Program Report on Carcinogens		
Known to be human carcinogen	**E**	**30**
Reasonably anticipated to be human carcinogen	**E**	**30**
Environmental Protection Agency Integrated Risk Information System		
Group A (human carcinogen)	**E**	**30**
Carcinogenic to humans	**E**	**30**
Group B1 (probable human carcinogen)	**E**	**30**
Group B2 (probable human carcinogen)	**E**	**30**
Likely to be carcinogenic to humans	**E**	**30**
Group C (possible human carcinogen)	**D**	**20**
Suggestive evidence of carcinogenic potential	**D**	**20**
Group D (not classifiable as to human carcinogenicity)	***No band***	***No score***
Data are inadequate for an assessment of carcinogenic potential	***No band***	***No score***
Group E (evidence of non-carcinogenicity for humans)	**A**	**30**
Not likely to be carcinogenic to humans	**A**	**30**
International Agency for Research on Cancer		
Group 1 (carcinogenic to humans)	**E**	**30**
Group 2A (probably carcinogenic to humans)	**E**	**30**
Group 2B (possibly carcinogenic to humans)	**E**	**30**
Group 3 (not classifiable as to its carcinogenicity to humans)	***No band***	***No score***
Group 4 (probably not carcinogenic to humans)	**A**	**30**
State of California Office of Environmental Health Hazard Assessment		
Type of toxicity = cancer	**E**	**30**

Worksheet for Cancer

Carcinogenicity (20 or 30 points possible)				
	Band A	**Band C**	**Band D**	**Band E**
NTP/EPA/IARC/Canada/California (QUALITATIVE)				
EPA IRIS Slope Factor				
EPA IRIS Inhalation Unit Risk				
Health Canada TD05				
Health Canada TC05				
California Slope Factor				
California Inhalation Unit Risk				