











Onsite Worker Exposure



□ Risk Assessment Methodologies (continued)

 Applying roofing scenarios (100-500 gals/day, 60% formulation), using EPA's AERMOD (with MET data), cancer risk >>1,000/million

Risk Threshold

- ✓ No adopted carcinogenic risk threshold for onsite workers
- ✓ OEHHA published three target cancer risk levels for occupational exposure (Dec 2007)
 - 1/1,000 (translates to 1,000 in one million)
 - 1/10,000 (translates to 100 in one million)
 - 1/100,000 (translates to 10 in one million)

Usage and Formulation Limits



• Using OEHHA target cancer risk levels, back calculate allowable usage and percent formulation. For example, a 10,000 sq ft/day roofing project:

OEHHA Risk Targets	tBAc % Formulation	Allowable Usage
1000/million	60 %	5 gals/day
100/million	60 %	1⁄2 gal/day
10/million	60 %	0.05 gal/day
1000/million	3% - 0.6%	100-500 gals/day
100/million	0.3% - 0.06%	100-500 gals/day
10/million	0.03% - 0.006%	100-500 gals/day







