

POTENTIALLY CARCINOGENIC SUBSTANCES

Chromium Compounds

FIGURE 10

Potential Health Effects on Humans

	<u>Hexavalent Chromium Compounds</u>	<u>Other Chromium Compounds</u>
Respiratory Tract Irritation/Perforation of Mucous Membranes, Bronchitis	X	X
Liver damage	X	X
Skin dermatitis, Ulcers	X	X
Kidney damage	X	X
Lung cancer	X <u>a/</u>	-

a/ except in combination with hydrogen, alkali metals, ammonia, oxygen

FIGURE 11

Exposure Limits

	<u>OSHA</u>		<u>NIOSH</u>
	<u>Regulation</u>	<u>Proposed Regulation</u>	<u>Recommendation</u>
Ceiling	52 $\mu\text{g}/\text{m}^3$	-	1 $\mu\text{g}/\text{m}^3$ <u>b/</u> 50 $\mu\text{g}/\text{m}^3$ /15 min <u>c/</u>
Time Weighted Average	-	-	25 $\mu\text{g}/\text{m}^3$ <u>c/</u>

b/ Potentially carcinogenic hexavalent chromium

c/ Noncarcinogenic hexavalent chromium

FIGURE 12

Classes of Materials Containing Hexavalent Chromium Compounds

<u>Production</u>	<u>Nonproduction</u>
Topcoat Paints	Maintenance Paints
Primer Paints	Paint Strippers
Chromate Coatings	Marking Inks