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# NIOSH Pocket Guide to Chemical Hazards

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<b>Formaldehyde</b>		<b>CAS</b> 50-00-0	
<b>HCHO</b>		<b>RTECS</b> <a href="#">LP8925000</a>	
<b>Synonyms &amp; Trade Names</b> Methanal, Methyl aldehyde, Methylene oxide		<b>DOT ID &amp; Guide</b>	
<b>Exposure Limits</b>	<b>NIOSH REL:</b> Ca TWA 0.016 ppm C 0.1 ppm [15-minute] <a href="#">See Appendix A</a>		
	<b>OSHA PEL:</b> [1910.1048] TWA 0.75 ppm ST 2 ppm		
<b>IDLH</b> Ca [20 ppm] See: <a href="#">50000</a>	<b>Conversion</b> 1 ppm = 1.23 mg/m <sup>3</sup>		
<b>Physical Description</b> Nearly colorless gas with a pungent, suffocating odor. [Note: Often used in an aqueous solution (see specific listing for Formalin).]			
MW: 30.0	BP: -6°F	FRZ: -134°F	Sol: Miscible
VP: >1 atm	IP: 10.88 eV	RGasD: 1.04	
Fl.P: NA (Gas)	UEL: 73%	LEL: 7.0%	
Flammable Gas			
<b>Incompatibilities &amp; Reactivities</b> Strong oxidizers, alkalis & acids; phenols; urea [Note: Pure formaldehyde has a tendency to polymerize. Reacts with HCl to form bis-Chloromethyl ether.]			
<b>Measurement Methods</b> NIOSH <a href="#">2016</a> , <a href="#">2541</a> , <a href="#">3500</a> , <a href="#">3800</a> ; OSHA <a href="#">ID205</a> , <a href="#">52</a> See: <a href="#">NMAM</a> or <a href="#">OSHA Methods</a>			
<b>Personal Protection &amp; Sanitation</b> ( <a href="#">See protection</a> ) Skin: No recommendation Eyes: Prevent eye contact Wash skin: No recommendation Remove: No recommendation Change: No recommendation		<b>First Aid</b> ( <a href="#">See procedures</a> ) Eye: Irrigate immediately  Breathing: Respiratory support	
<b>Respirator Recommendations</b> ( <a href="#">See Appendix E</a> ) NIOSH <b>At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:</b> (APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode (APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus <b>Escape:</b> (APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against the compound of concern/Any appropriate escape-type, self-contained breathing apparatus <a href="#">Important additional information about respirator selection</a>			
<b>Exposure Routes</b> inhalation, skin and/or eye contact			
<b>Symptoms</b> Irritation eyes, nose, throat, respiratory system; lacrimation (discharge of tears); cough; wheezing; [potential occupational carcinogen]			
<b>Target Organs</b> Eyes, respiratory system			
<b>Cancer Site</b> [nasal cancer]			
See also: <a href="#">INTRODUCTION</a> See ICSC CARD: <a href="#">0275</a> See MEDICAL TESTS: <a href="#">0110</a>			