

Cement

# NIOSH Pocket Guide to Chemical Hazards

<b>Portland cement</b>		CAS 65997-15-1	
		RTECS VV8770000	
<b>Synonyms &amp; Trade Names</b> Cement, Hydraulic cement, Portland cement silicate [Note: A class of hydraulic cements containing tri- and dicalcium silicate in addition to alumina, tricalcium aluminate, and iron oxide.]		DOT ID & Guide	
<b>Exposure Limits</b>	NIOSH REL: TWA 10 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)		
	OSHA PEL †: TWA 50 mppcf		
IDLH 5000 mg/m <sup>3</sup>		Conversion	
<b>Physical Description</b> Gray, odorless powder.			
MW: ?	BP: NA	MLT: NA	Sol: Insoluble
VP: 0 mmHg (approx)	IP: NA		Sp.Gr: ?
Fl.P: NA	UEL: NA	LEL: NA	
Noncombustible Solid			
<b>Incompatibilities &amp; Reactivities</b> None reported			
<b>Measurement Methods</b> NIOSH 0500; OSHA ID207			
<b>Personal Protection &amp; Sanitation</b> Skin: Prevent skin contact Eyes: Prevent eye contact Wash skin: When contaminated Remove: When wet or contaminated Change: No recommendation		<b>First Aid (See procedures)</b> Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Fresh air Swallow: Medical attention immediately	
<b>Respirator Recommendations NIOSH</b> Up to 50 mg/m <sup>3</sup> : (APF = 5) Any dust respirator Up to 100 mg/m <sup>3</sup> : (APF = 10) Any dust respirator except single-use and quarter-mask respirators/(APF = 10) Any supplied-air respirator Up to 250 mg/m <sup>3</sup> : (APF = 25) Any supplied-air respirator operated in a continuous-flow mode/(APF = 25) Any powered, air-purifying respirator with a dust filter Up to 500 mg/m <sup>3</sup> : (APF = 50) Any air-purifying, full-facepiece respirator with a high-efficiency particulate filter/(APF = 50) Any supplied-air respirator that has a tight-fitting facepiece and is operated in a continuous-flow mode/(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter/(APF = 50) Any self-contained breathing apparatus with a full facepiece/(APF = 50) Any supplied-air respirator with a full facepiece Up to 5000 mg/m <sup>3</sup> : (APF = 1000) Any supplied-air respirator operated in a pressure-demand or other			

positive-pressure mode

Emergency or planned entry into unknown concentrations or IDLH conditions: (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

Escape: (APF = 50) Any air-purifying, full-facepiece respirator with a high-efficiency particulate filter/Any appropriate escape-type, self-contained breathing apparatus

**Exposure Routes** inhalation, ingestion, skin and/or eye contact

**Symptoms** Irritation eyes, skin, nose; cough, expectoration; exertional dyspnea (breathing difficulty), wheezing, chronic bronchitis; dermatitis

**Target Organs** Eyes, skin, respiratory system

See also: INTRODUCTION