



Centers for Disease Control and Prevention

CDC 24/7: Saving Lives. Protecting People. Saving Money through Prevention.

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# Emery

**Synonyms & Trade Names** Aluminum oxide, Aluminum trioxide, Corundum, Impure corundum, Natural aluminum oxide [Note: Emery is an impure variety of Al<sub>2</sub>O<sub>3</sub> which may contain small impurities of iron, magnesium & silica Corundum is natural Al<sub>2</sub>O<sub>3</sub>.]

<b>CAS No.</b> 1302-74-5 (corundum)	<b>RTECS No.</b> <u>GN0231000 (corundum)</u> ( <a href="/niosh-rtecs/GN38658.html">/niosh-rtecs/GN38658.html</a> )	<b>DOT ID &amp; Guide</b>
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<b>Formula</b> Al <sub>2</sub> O <sub>3</sub>	<b>Conversion</b>	<b>IDLH</b> N.D. See: <b>IDLH INDEX</b> ( <a href="/niosh/idlh/intridl4.html">/niosh/idlh/intridl4.html</a> )
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<p><b>Exposure Limits</b></p> <p><b>NIOSH REL</b> : See <a href="#">Appendix D (nengapdx.html)</a></p> <p><b>OSHA PEL</b> † (<a href="#">nengapdxg.html</a>) : TWA 15 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp)</p>	<p><b>Measurement Methods</b></p> <p><b>NIOSH 0500</b>  (<a href="/niosh/docs/2003-154/pdfs/0500.pdf">/niosh/docs/2003-154/pdfs/0500.pdf</a>), <b>0600</b>  (<a href="/niosh/docs/2003-154/pdfs/0600.pdf">/niosh/docs/2003-154/pdfs/0600.pdf</a>)</p> <p>See: <b>NMAM</b> (<a href="/niosh/docs/2003-154/">/niosh/docs/2003-154/</a>) or <b>OSHA Methods</b>  (<a href="http://www.osha.gov/dts/sltc/methods/index.html">http://www.osha.gov/dts/sltc/methods/index.html</a>)</p>
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**Physical Description** Odorless, white, crystalline powder.

See α-Alumina for physical & chemical properties.				
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**Incompatibilities & Reactivities**

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

**Symptoms** irritation eyes, skin, respiratory system

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

<p><b>Personal Protection/Sanitation</b> (See <a href="#">protection codes (protect.html)</a>)</p> <p><b>Skin:</b> No recommendation</p>	<p><b>First Aid</b> (See <a href="#">procedures (firstaid.html)</a>)</p> <p><b>Eye:</b> Irrigate immediately</p>
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**Eyes:** No recommendation  
**Wash skin:** No recommendation  
**Remove:** No recommendation  
**Change:** No recommendation

**Breathing:** Fresh air  
**Swallow:** Medical attention immediately

**Respirator Recommendations**

Not available.

[Important additional information about respirator selection \(pgintrod.html#mustread\)](#)

See also: [INTRODUCTION \(/niosh/npg/pgintrod.html\)](#)

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