Identifying Lead in the Workplace

Note: The following lists are provided to help you identify common sources of lead or lead-containing materials at a worksite. This is not a complete list by any means; other sources may also be identified. You are responsible for conducting a complete review of the premises, materials (including Safety Data Sheets), and processes involved in your business operation.

<table>
<thead>
<tr>
<th>Processes that may involve lead:</th>
<th>Materials that may contain lead:</th>
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</thead>
<tbody>
<tr>
<td><strong>Manufacturing:</strong></td>
<td>Note: for product-specific information, refer to Safety Data Sheets provided by the product manufacturer</td>
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<tr>
<td>Lead acid batteries</td>
<td><strong>Pigments:</strong></td>
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<tr>
<td>Paint*, glazes, pigments, inks, dyes</td>
<td>Paints*</td>
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<tr>
<td>Ceramics, tile, porcelain</td>
<td>Painted surfaces*—Assume lead-containing paint to be present on buildings built before 1978 and on painted metal surfaces (painted in any year)</td>
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<tr>
<td>Leaded glass, crystal, stained glass</td>
<td>Glazes, frits</td>
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<tr>
<td>Cable, wire products, solder</td>
<td>Dyes, colorants</td>
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<tr>
<td>Rubber or plastics</td>
<td>Inks</td>
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<tr>
<td>Aircraft, aircraft parts, shipbuilding</td>
<td><strong>Alloys and metal products:</strong></td>
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<tr>
<td>Automobiles, trucks, automotive radiators</td>
<td>Lead</td>
</tr>
<tr>
<td>Firearms, bullets, explosives</td>
<td>Brass</td>
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<tr>
<td>Adhesives, sealants, lubricants</td>
<td>Bronze</td>
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<tr>
<td><strong>Metal working (with lead-containing metals):</strong></td>
<td>Pewter</td>
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<tr>
<td>Smelting, refining, processing scrap metal</td>
<td>“White metal”</td>
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<tr>
<td>Recycling lead, batteries, cable, etc.</td>
<td>Cast iron</td>
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<tr>
<td>Foundry work, casting, forging</td>
<td>Lead-plated materials (e.g., steel strapping)</td>
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<td>Grinding, polishing, deburring, machining</td>
<td>Plumbing fittings</td>
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<tr>
<td>Soldering, brazing, tinning</td>
<td>Lead sheeting and pipe</td>
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<tr>
<td>Galvanizing operations, plating/electroplating</td>
<td>Scrap metal-lead alloys, materials with lead coatings</td>
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<tr>
<td>Heat treating, quenching, annealing</td>
<td>Some steel and aluminum alloys</td>
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<tr>
<td>Fabricating sheet metal products (e.g., HVAC, gutters)</td>
<td><strong>Repair materials:</strong></td>
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<tr>
<td></td>
<td>Solder</td>
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<td>Lead caulking</td>
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<td>Lead fillers in auto body work</td>
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<td></td>
<td>Cable coverings</td>
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<tr>
<td><strong>Repair:</strong></td>
<td><strong>Other:</strong></td>
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<tr>
<td>Automotive radiator repair, auto body, ship repair</td>
<td>Electric storage batteries</td>
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<tr>
<td>Welding, cutting, sanding, grinding of lead alloys or lead-coated surfaces</td>
<td>Ammunition</td>
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<tr>
<td>Soldering, electronics repair</td>
<td>Explosives</td>
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<tr>
<td>Repair work that disturbs lead paint</td>
<td>Lead stabilizers and plasticizers in plastics</td>
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<td></td>
<td>Lead driers in paints</td>
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<td></td>
<td>Chemical additives</td>
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</tbody>
</table>

| **Construction:**                | **Other:**                      |
| Painting or paint removal (sanding, abrasive blasting, scraping, torching, stripping, heat gun applications)* | Electric storage batteries |
| Wrecking, demolition, cutting painted walls | Ammunition                      |
| Welding or cutting materials with lead-coated surfaces or lead alloys | Explosives                      |
| Remodeling/renovation/tenant improvements/repairs | Lead stabilizers and plasticizers in plastics |
| Plumbing, glazing, brick laying, lead burning | Lead driers in paints |
| Construction/repair of bridges, water towers, tanks | Chemical additives |
| Cleanup of lead dust, debris, lead-contaminated soil | |
| Roofing (use of leaded roofing materials, tear-off of painted or other lead-containing roofing materials)* | |

| **Other:**                       | |
| Shooting firearms, cleanup at firing ranges | |
| Using lead-containing paints, inks, pigments, glazes | |
| Industrial cleaning operations | |
| Telecommunications cable removal | |
| Fishing weights and lures manufacturing | |

* Many people incorrectly believe that lead in paints is no longer a problem. In 1977, the Consumer Product Safety Commission severely limited the lead content in paint used for residences or on toys. Older painted surfaces frequently contain significant quantities of lead. Lead pigments are still used in some paint applications, often to prevent corrosion on metal surfaces.