Example - How to Complete the Chemical Inventory Worksheet.

Suppose that you supervise a furniture stripping shop and one of your most frequently used strippers is X-STRIP brand industrial paint and varnish stripper. Since you use X-STRIP practically everyday in your operations, you typically take inventory at the end of every month and order enough X-STRIP to bring your stock up to 25,000 gallons. X-STRIP is delivered and stored in closed-top steel 55-gallon drums. To complete the Chemical Inventory Worksheet for this material, you would follow these steps:

1) Acquire the MSDS for the product:

2) Calculate the maximum daily amount (in pounds):
   • In this example, you order X-STRIP at the end of every month in order to keep your stock at 25,000 gallons; hence, your maximum daily amount is 25,000 gallons. This is easily converted into pounds by noting the specific gravity from the MSDS and applying the formula presented in the instructions:

   \[(25,000) \times (0.97) \times (8.3) = \textbf{201,275 pounds}\]

3) Calculate the average daily amount (in pounds):
   • In this example, you stock 201,275 pounds of X-STRIP at your facility every month; hence, the amount that you have at your building over the course of a year is:

   \[201,275 \times 12 = 2,415,300 \text{ pounds}\]

Since you keep X-STRIP on the premises all year (365 days), the average daily amount of X-STRIP that is stored at your building is:

\[2,415,300 \div 365 = \textbf{6,617 pounds}\]

You now have all the information that is required to complete the inventory worksheet. For this example, the completed worksheet would look like this:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Chemical Ingredients</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Maximum Daily Amount (in pounds)</th>
<th>Average Daily Amount (in pounds)</th>
<th>Storage Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-STRIP</td>
<td>methylene chloride</td>
<td>75-09-2</td>
<td>36 %</td>
<td>201,275</td>
<td>6,617</td>
<td>55 gallon</td>
</tr>
<tr>
<td></td>
<td>methyl ethyl ketone</td>
<td>79-83-3</td>
<td>22 %</td>
<td></td>
<td></td>
<td>closed top steel</td>
</tr>
<tr>
<td></td>
<td>cyclohexane</td>
<td>111-82-7</td>
<td>42 %</td>
<td></td>
<td></td>
<td>drums</td>
</tr>
</tbody>
</table>
