

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 :

$$(25,000) \times (0.97) \times (8.3) = \mathbf{201,275 \text{ pounds}}$$

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 :

$$2,415,300 / 365 = \mathbf{6,617 \text{ pounds}}$$

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

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