



Calculations

How much force are you dealing with?

A can of tomatoes weights 400 g and is 0.073 m diameter.

$$0.4 \text{ g} \times 9.81 \text{ m/s}^2 = 3.924 \text{ N}$$

The base has an area of $\frac{\pi * 0.073 \text{ m}^2}{4} = 0.0042 \text{ m}^2$

So the pressure it exerts is $\frac{3.924 \text{ N}}{0.0042 \text{ m}^2} = 934 \text{ Pa}$

Not much, but it could bend the platform it sits on or cause the scissor lift to twist.

