Quality Data for Safer Experiments:

Building a Professional Partnership between Lab Workers, EHS Staff, and Chemical Information Professionals

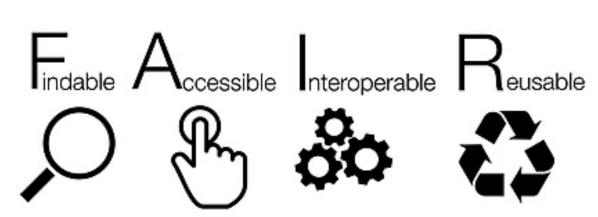
Leah McEwen, Cornell University Chemistry Librarian, and Ralph Stuart, Keene State College Chemical Hygiene Officer

The RAMP Process

The RAMP framework organizes the risk assessment process into a multi-layered, shareable risk management strategy.



FAIR Data Principles

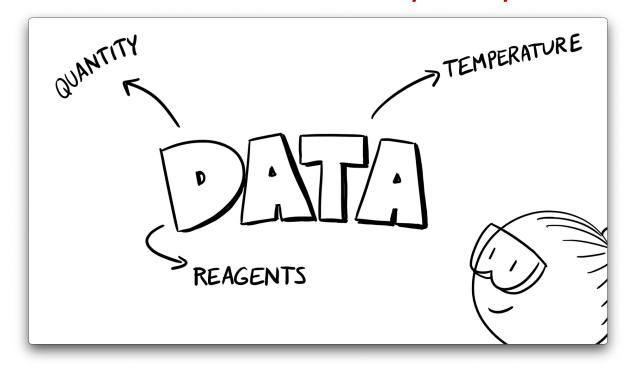


The FAIR data principles help ensure that information is consistently presented for accurate communication and analysis. FAIR data sources are well documented so you can better assess if they are fit-for-purpose and relevant for your work.

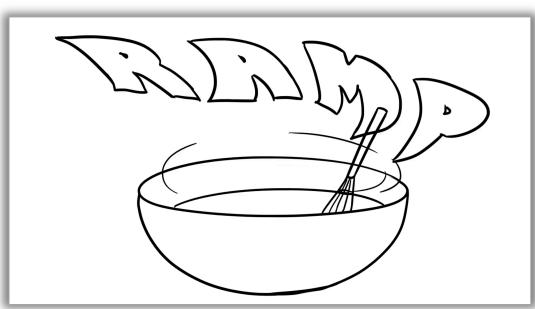
The more that FAIR data is used in the RAMP process, the more shareable and reproducible the risk assessment will be.

Using Data in Your Risk Assessment

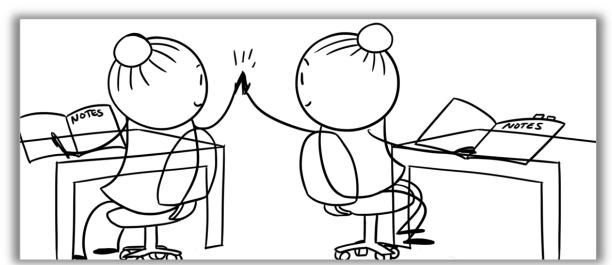
1) Recognizing hazards and assessing risks relies on data about your system.



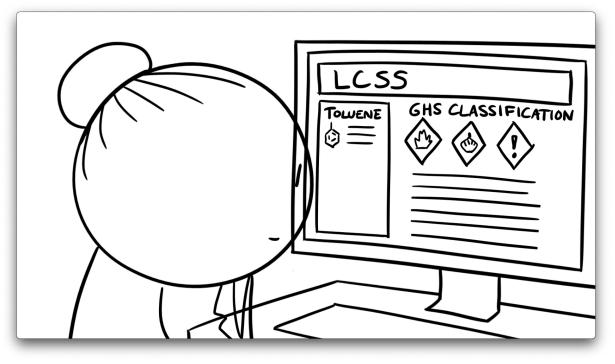
3) Applying this data through the RAMP framework supports making informed, documented decisions about risk.



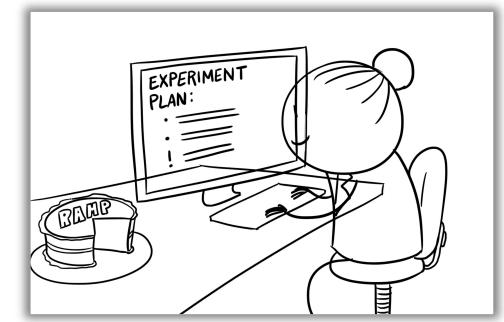
5) Your future self will thank you for documenting your information in a FAIR manner as your work evolves.



2) LCSSs from PubChem provide FAIR data about reactivity and toxicity hazards.



4) A well documented risk assessment will help you more efficiently plan and manage your experiments.



6) Sharing your data from your risk assessment will improve the lab community's safety knowledge.



Related Safety Resources

- Laboratory Chemical Safety
 Summaries in PubChem
 pubchem.ncbi.nlm.nih.gov
- ACS Guide to Scholarly
 Communication, Communicating
 Safety Information (Chapter 1.3)
 tinyurl.com/acs-safety-chapter
- CAS Chemical Safety Library safescience.cas.org
- American Chemical Society
 www.acs.org/safety
 Free ACS course on
 "Foundations of Chemical Safety
 and Risk Management for
 Chemistry Students."
- CHAS Health& Safety Division www.dchas.org
 - FAIR/RAMP cartoon video
 - Information sources & references

Share your risk assessments & lessons learned FAIRLY!

