

The Hidden Complexity of Chemical Risk

Why Modern EHS Teams Need More Than Spreadsheets and SDS Binders

The Chemical Landscape Is Complex

Can your Environment, Health & Safety (EHS) program keep up with chemical complexity?



350,000+ chemicals registered globally.

Source: C&EN

500 new chemical submissions are reviewed each year under TSCA.

Source: EPA

The Reality Inside Most Organizations

Chemical programs are scaling faster than the tools built to manage them.

- Organizations must manage **hundreds to tens of thousands of SDSs** across locations, suppliers, and regulatory formats.
- **12,000+** facilities use, store, or manufacture hazardous chemicals. Source: Coming Clean, INC
- SDS databases may contain **outdated or duplicate versions**, requiring verification against manufacturers.



Where chemical data lives today:

- Binders
- Spreadsheets
- Shared drives
- SDS PDFs

All of these data sources point in different directions, and there's no single source of truth across sites.

7,000

average number of chemicals managed by an enterprise organization. [Internal research]

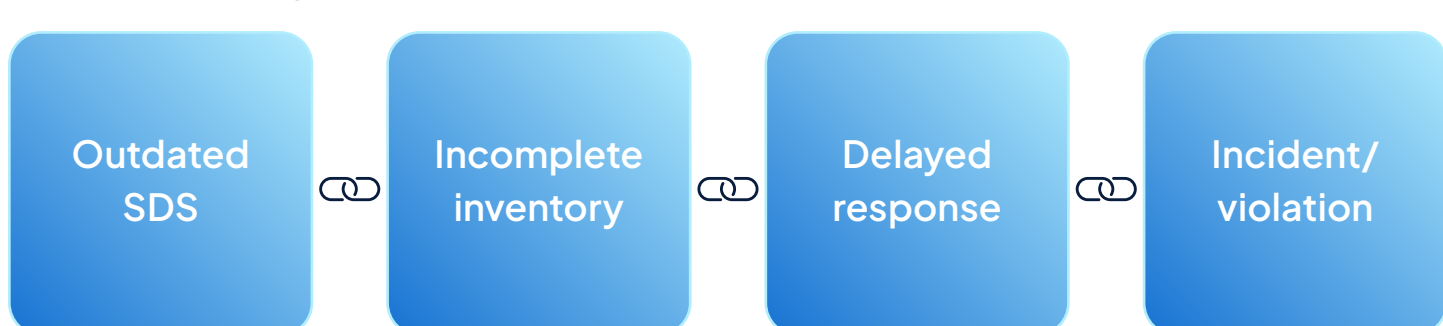
Regulations Are Constantly Changing

- Chemical safety is governed by multiple regulatory frameworks, including OSHA HazCom, WHMIS, and EU REACH/CLP.
- SDSs must be updated whenever new hazard information becomes available and are typically reviewed every 3–5 years.

EHS teams must keep chemical data **current, accessible, and audit-ready across every site.**



Chemical Management Risk Chain



Chemical Risk = Operational Risk

American workers use tens of thousands of chemicals every day. Source: OSHA

The impact of getting it wrong:

687

In 2024, 687 workers died from exposure to harmful substances or environments in the US.

Source: Coming Clean, INC

\$15,000

OSHA fines can exceed \$15,000 per violation.

Source: Coming Clean, INC

\$27,000

is the average cost of a chemical-poisoning workers' comp claim.

Source: Coming Clean, INC

Common incident types

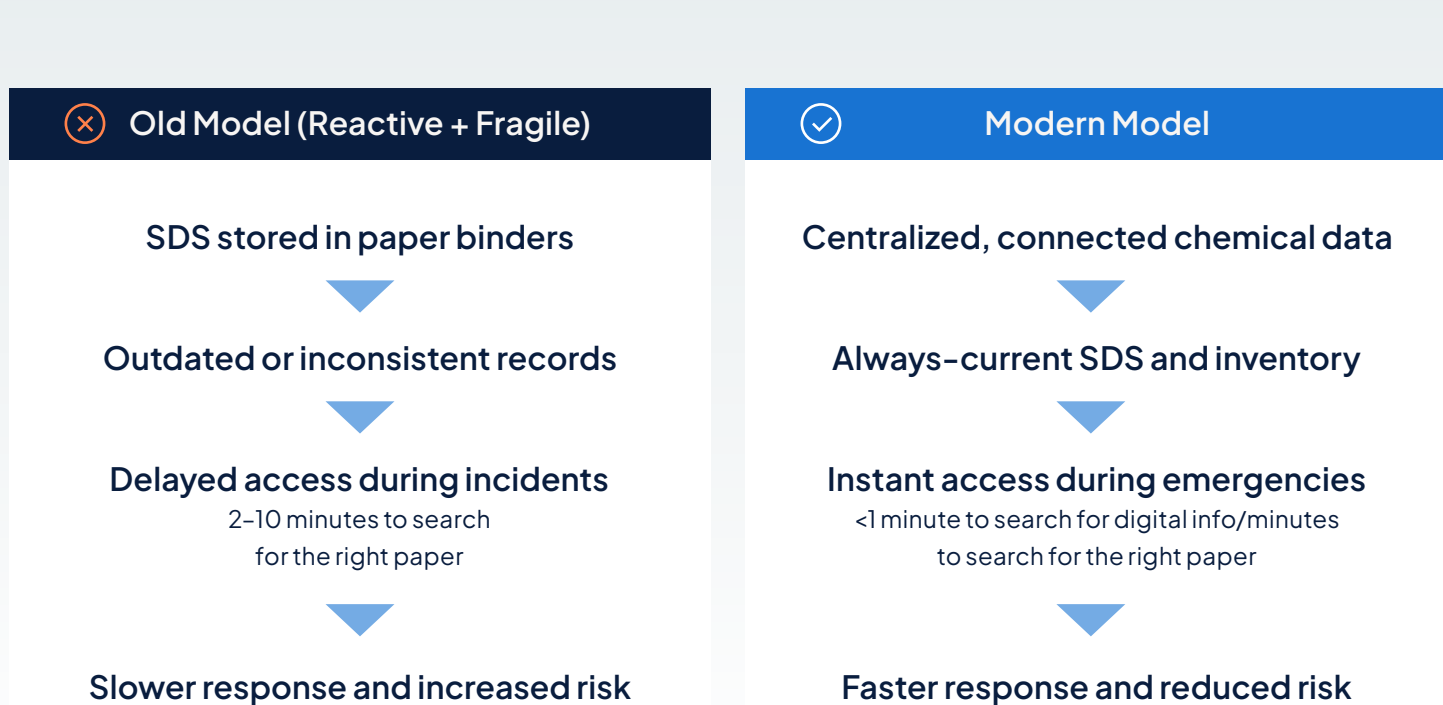


- Chemical exposure
- Spills
- Improper storage
- Labeling errors



Manual SDS Management Creates Hidden Exposure

Many organizations assume the biggest risk is missing an SDS, but the real challenge is knowing whether the SDS you have is current and trusted when it matters most.



➡ This shift connects chemical information with incidents, audits, corrective actions, and safety workflows.

What Modern Chemical Management Enables



Key Benefits:

- ✓ Instant access during emergencies
- ✓ Enterprise chemical inventory visibility
- ✓ Compliance supported across sites
- ✓ Prevention of uncontrolled chemical introduction
- ✓ Chemical data connected to safety and risk workflows.

➡ These capabilities allow organizations to move from reactive compliance to proactive chemical risk management.

The Future of Chemical Safety

Chemical management has changed from an administrative task to a core pillar of enterprise safety and risk management.

➡ Learn how modern EHS platforms are transforming chemical management.