

What Each Section Tells You—and Why It Matters





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THANK YOU FOR JOINING US!

Whether you're managing chemicals or just want to stay compliant, this session is for you!

Today we will break down SDS compliance into simple, practical steps to help your business stay compliant with regulations while keeping your employees safe.



Welcome

We're glad you're here! Today, our regulatory team will walk you through how to read, interpret, and apply the information in each SDS section to support workplace safety and compliance.

Webinar Objectives

In this session, you will:

- Learn the **purpose** of each of the 16 SDS sections
- Understand how SDSs support compliance, training, and emergency response
- Spot common red flags in noncompliant or outdated SDSs
- Get tips for evaluating SDS quality and accessibility



OSHA Deadlines and Stakeholders:

Effective Date of Regulation

Manufacturers, Importers, and
 Distributors: Compliance for Substances

 All Employers: Compliance for Substances

 Chemical Manufacturers, Importers, and Distributors: Compliance for Mixtures

All Employers: Compliance for Mixtures

JULY 19 2024

> JAN 19 2026

JUL 20 2026

JUL 19 2027

JAN 19 2028 Are you in compliance for the OSHA Standard updates?

Transition Deadlines in Effect and Approaching:

- EU CLP Hazards: New classifications (e.g., endocrine disruptors) fully applicable to substances by May 1, 2025.
- o **Brazil Updated Standard:** Revised regulations, in alignment with the GHS Revision 7, become mandatory on **July 4**, **2025.**
- China GB Standards: New updates effective August 1, 2025, businesses must ensure SDS compliance with revised GB 30000.1 and related standards.
- Canada HPR: Full compliance required with updated Hazardous Products Regulations starting December 15, 2025.

MAY 1 2025

JULY 4 2025

AUG 1 2025

DEC 15 2025

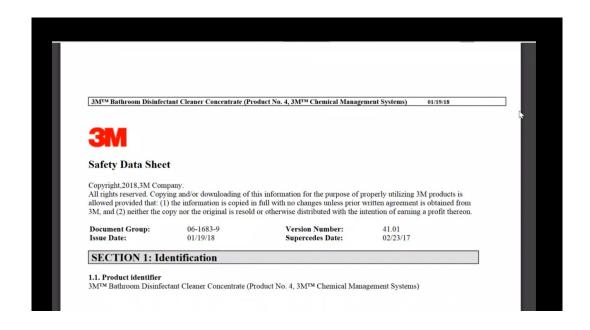
What's your plan for these key jurisdiction updates?

Why SDSs Matter





The standard requires employers to provide access to accurate, up-to-date SDSs for all hazardous chemicals in the workplace.





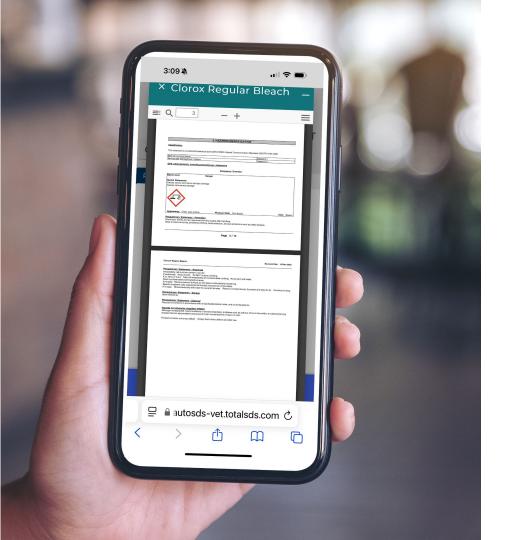
SDSs help ensure workers can safely handle, store, and respond to chemicals.

They're essential for:

- Emergency preparedness
- Training and awareness
- Personal protective equipment (PPE) decisions
- Environmental responsibility

SDS as a tool for both compliance and safety





SDS Overview



What is the 16-section format used in GHS-aligned Safety Data Sheets (SDSs)?

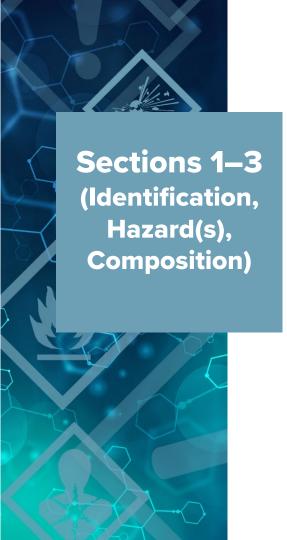
Standard format established by the GHS.
 Ensures consistency across suppliers and helps global users find key safety data quickly.

When is an SDS is required?

Anytime a hazardous chemical is present in the workplace.

Who uses it—and why?

- Environmental Health & Safety (EHS) professionals
- Lab and facility workers
- Emergency responders
- Purchasing and compliance staff
- Anyone handling or exposed to the hazardous chemical that is present in the workplace



Section 1: Identification

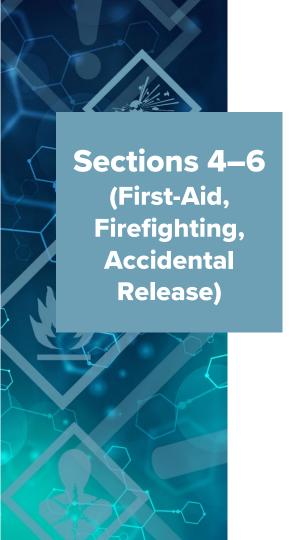
- Product name, recommended uses, supplier contact info
- Emergency phone number

Section 2: Hazard(s) identification

- Signal word: "Danger" or "Warning"
- Pictograms: Indicate specific hazard classes (e.g., flammable, toxic)
- Hazard statements and precautionary measures

Section 3: Composition/Information on Ingredients

- Lists ingredients and their concentrations
- Identifies whether the product is a single substance or a mixture
- Crucial for medical response and workplace exposure monitoring



Section 4: First-Aid Measures

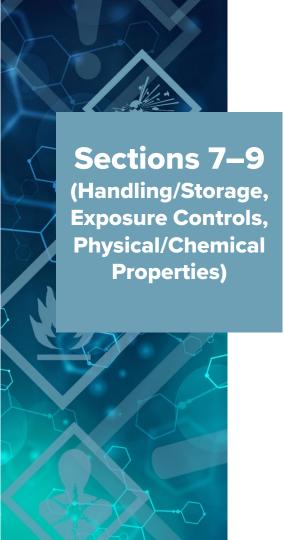
- Immediate steps to take for different types of exposure: inhalation, skin/eye contact, ingestion
- Important for training and emergency planning

Section 5: Fire-Fighting Measures

- Suitable extinguishing agents (foam, CO₂, dry chemical)
- Fire hazards and thermal decomposition products
- PPE for firefighters

Section 6: Accidental Release Measures

- Spill response: containment, cleanup methods
- Personal protective equipment and evacuation recommendations
- Environmental precautions



Section 7: Handling and Storage

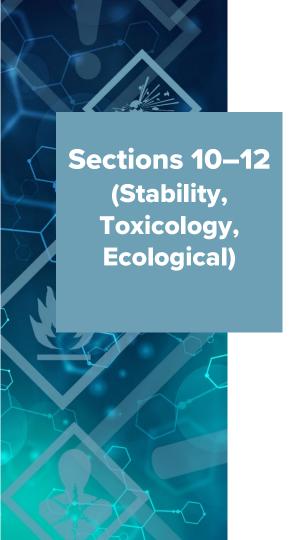
- Safe practices to prevent leaks, spills, or reactivity
- Storage compatibility (e.g., avoid storing oxidizers near flammables)

Section 8: Exposure Controls/Personal Protection

- Exposure limits (OSHA PEL, ACGIH TLV)
- Engineering controls (fume hoods, ventilation)
- PPE: gloves, goggles, respirators—detailed by task or exposure type

Section 9: Physical and Chemical Properties

- Appearance, odor, pH, boiling/melting points, flash point
- Helps assess flammability, reactivity, and storage conditions



Section 10: Stability and Reactivity

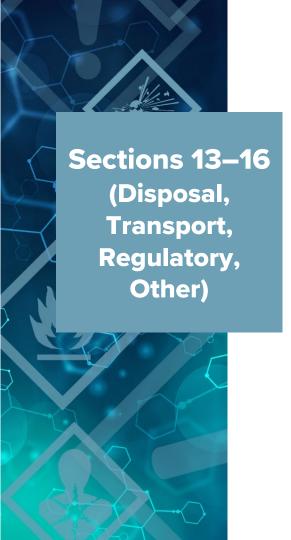
- Chemical stability and hazardous decomposition products
- Conditions to avoid (e.g., heat, shock, moisture)

Section 11: Toxicological Information

- Acute and chronic effects (e.g., carcinogenicity, reproductive toxicity)
- Routes of exposure and symptoms

Section 12: Ecological Information

- Environmental impact (aquatic toxicity, persistence)
- While not required by OSHA, useful for sustainability and global compliance



Section 13: Disposal Considerations

- Proper methods for disposal, recycling, or neutralization
- Addresses local/state/federal regulations

Section 14: Transport Information

- DOT (or transport mode applicable to jurisdiction),
 IATA, IMDG classifications
- Shipping names, hazard class, UN number, packing group

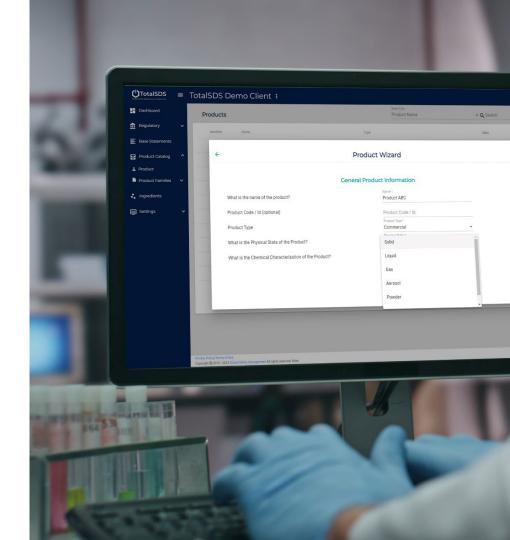
Section 15: Regulatory Information

- Lists safety, health, and environmental regulations the chemical is subject to
- May include TSCA, CERCLA, SARA, California Prop 65, REACH SVHC, DSL, etc. (again, depending on jurisdiction)

Section 16: Other Information

- SDS revision date and version history
- Miscellaneous safety notes, supplier disclaimers

What to Watch Out For?





Incomplete or outdated SDSs

- Missing sections or generic phrases (e.g., "no data available")
- Hasn't been reviewed/updated in over a year

Red flags in Section 2 or Section 8

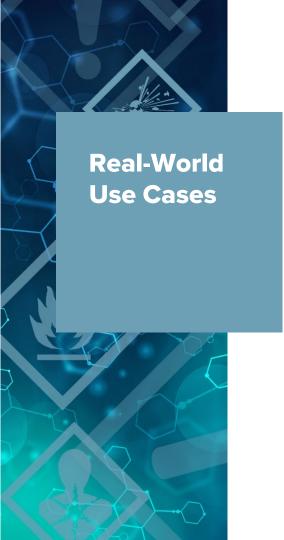
- Vague hazard classifications
- Missing or inappropriate PPE recommendations

Formatting Issues

- Unstandardized layout that makes key information hard to find
- Conflicts between sections (e.g., fire hazard listed but no extinguishing method provided)



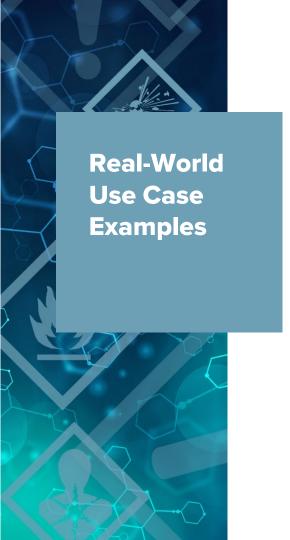
Real-World Use Cases



How different departments use SDSs (EHS, R&D, Purchasing, Training)

- Environmental, Health & Safety (EHS):
 Auditing and incident response planning
- R&D Departments: Assessing chemical suitability and reactivity in new formulations
- Procurement Teams: Ensuring vendor compliance and hazard classification alignment
- Training Coordinators: Teaching staff how to use chemicals safely





Example: Pulling PPE guidance from an SDS (using Section 8 to select nitrile gloves for a corrosive solvent)

Example: Using Section 4 after a chemical splash incident in a lab to gather guidance for immediate care.



Compliance Checklist





- All 16 sections included
- Current version and revision date
- Regulation (GHS)-aligned hazard classifications
- ✓ Data in Sections 4-14 align with the hazard classifications and properties of the product.





Is the SDS clear and actionable?

Does it match the product label and actual use case?

Is it readily accessible to employees at all times with no barriers (e.g., passwords/locked rooms)?





OSHA requires that Safety Data Sheets (SDSs) be **readily accessible** to employees at all times.

Additionally, employers must retain records of hazardous chemical exposures—including the hazards associated with those substances—for **30 years.** These records are typically maintained in the form of SDSs and serve as critical documentation for long-term health monitoring and regulatory compliance.



TotalSDS Tools and Services

■ TotalSDS Author

- Quickly author SDSs inhouse with wizard logic
- Regulatory updates for ingredients and jurisdictions included

■ TotalSDS Manager

- Digitally manage SDSs without paper binders
- Mobile app, QR Codes and offline access

Professional Services

- SDS Authoring
- SDS Translations
- SDS Consulting







Engage with Our Experts

Interactive Q&A:

- Submit your questions via the chat feature
- Our panel of regulatory experts will address your queries live

