

## CHEMICAL INVENTORY & SPILL RESPONSE

In the event of a spill or release, immediately review and follow the applicable Safety Data Sheet (SDS) guidelines. The Validus [Right to Know Center](#) maintains a library of all chemicals and the associated Safety Data Sheets.

Like fire, chemicals are very useful for a broad variety of functions. But just like fire, many chemicals are inherently hazardous or even deadly when they are not used in a properly controlled manner, or when accidents occur. That is an important fact to remember, because chemicals are used to some degree at nearly every Validus Energy operation. Whether chemicals are added as part of a production process, used to clean or lubricate equipment, or exist as the byproduct of some other action, they can pose a hazard to workers. Some are highly corrosive or toxic. Others are flammable, may oxidize quickly, or may react with other substances to create a deadly situation.

When chemicals are stored or handled properly, the inherent risk is minimized. But if something goes wrong and a chemical is spilled, appropriate action must be taken immediately to prevent injury to workers and others, and to minimize the potential damage to the environment or other materials and facilities.

### SAFETY DATA SHEETS

- The SDS is used by chemical manufacturers and vendors to convey hazard information to users.
- An SDS should be obtained when a chemical is purchased.
- A chemical inventory list, and SDS, for each chemical are required to be maintained in a company's Right to Know Center.

### READING THE SDS

Information on the MSDS is organized in 16 sections as follows:

1. **Identification** includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.
2. **Hazard(s) Identification** includes all hazards regarding the chemical; required label elements.
3. **Composition/Info on Ingredients** includes information on chemical ingredients and trade secret claims.
4. **First Aid Measures** includes important symptoms/effects, acute, delayed; required treatment.
5. **Fire Fighting Measures** lists suitable extinguishing techniques, equipment, chemical hazards from fire.
6. **Accidental Release Measures** lists emergency procedures; protective equipment; proper methods of containment and cleanup.
7. **Handling and Storage** lists precautions for safe handling and storage, including incompatibilities.
8. **Exposure Controls/Personal Protection** lists OSHA's Permissible Exposure Limits (PELs); Threshold Limit Values (TLVs); appropriate engineering controls; personal protective equipment (PPE).
9. **Physical and Chemical Properties** lists the chemical's characteristics.
10. **Stability and Reactivity** lists chemical stability and possibility of hazardous reactions.
11. **Toxicological Information** includes routes of exposure, related symptoms, acute and chronic effects; numerical measures of toxicity.
12. **Ecological Information** \*
13. **Disposal Considerations** \*
14. **Transportation Information** \*
15. **Regulatory Information** \*
16. **Other Information** includes the date of preparation or last revision.



### SPILL RESPONSE PROCEDURES

It is required that contractors who perform spill clean-up and remediation services follow the requirements of the specific chemical SDS and their company policies and procedures. If you have encountered a chemical that is not available in the Validus Right to Know Center, please submit a [Chemical SDS Request!](#)

*It takes less time to do something right, than it does to recover after you did it wrong.*