UNDERSTANDING

# MSDS

**ADVANCED COURSE**

## Course Summary:

In the advanced course, you will learn how to read and understand an MSDS (Material Safety Data Sheet). All of the information from the basic course is included with an additional chapter covering physical properties of chemicals, transportation, reactivity, regulatory information and ecological impact. There is still a strong emphasis on chemical safety, accident prevention and steps to maintain a safe workplace. If this material is more detailed than you had anticipated, review our Introduction to MSDS course which offers a more general overview.


## Highlights:

- Ecological concerns when dealing with chemicals
- OSHA regulatory information
- Locating and reading MSDS in your facility
- Using protective clothing when working with chemicals
- Reading signs and symbols for hazardous materials
- NFPA fire diamond and codes

| CODE | DESCRIPTION | EXAMPLE |
|---|---|---|
| W | Material shows unusual reactivity with water (i.e. don't put water on it) | Magnesium Metal |
| OX | Material possesses oxidizing properties | Ammonium Nitrate (fertilizer used in the Oklahoma City bomb) |
| ACID | Material is an acid, a corrosive material that has a pH lower than 7.0 | Hydrochloric Acid (muriatic acid used to clean bricks) |
| COR | Material is corrosive (it could be either an acid or base) | Sodium Hypochlorite (spot remover) |
| ALK | Material is alkaline (also called a base) that has a pH greater than 7.0 | Sodium Hydroxide (Drano) |
| ☢ | Material is radioactive | Radon Gas (naturally occuring home pollutant) |

## Glossary Terms & Acronyms in this course:

ACGIH
Bioaccumulation
Carcinogen
CERCLA
Desiccator Cabinet
Ecotoxicity
EPA
Hazardous Polymerization
HMIG / HMIS
Inhalation
Lower Flammability Limit
NFPA
Permeation Rate
PPM
Photolytic Stability
Protective Clothing
Specific Gravity
Spill Data
Toxic Dose Low
Vapor Density
Waste Disposal Method