

# XPell™ *Indicating Pellets for Peroxides Prevention in Solvents*



**University Chemistry labs**



**Analytical labs**



**Pharmaceutical labs**



**Environmental Health & Safety Depts.**



**Hazardous Waste Disposal Companies**

**XPell provides a quick, effective, and inexpensive means for preventing the buildup of unstable peroxides in solvents.**

- Numerous laboratory solvents and chemicals such as ethers, certain alcohols, and alkenes react with atmospheric oxygen to produce highly explosive peroxides.
- Explosions can result upon evaporation of peroxide-containing solvents while, for some solvents, simply handling can cause it to explode.
- The peroxides can degrade analytes including various chemicals, proteins, and DNA causing problems for trace analysis. The peroxides can also interfere with chemical reactions and cause undesired polymerization reactions.
- Conventional antioxidants used for prevention of peroxide build-up used in minute amounts since their addition can be problematic for chemical reactions and analyses. The minute amounts of antioxidants provide only temporary safety and provide no indication when they are exhausted and the solvent is becoming dangerous.
- Current safe practices for working with peroxide-forming solvents call for burdensome periodic testing or wasteful disposing of unused solvents after short periods of time.
- XPell allows proper management of peroxide forming solvents and eliminates the possibility of a serious accidents resulting from peroxide buildup. Their use will reduce chemical costs and improve chemical reactions and analyses due to the elimination of soluble Antioxidants.

## As simple as:

The addition of approximately one tablespoon of XPell pellets per liter of peroxide forming solvent is sufficient to prevent peroxide formation for several years. The pellets are initially dark blue in color and turn yellow when their capacity to reduce peroxides is exceeded. Thus, the presence of the blue color provides simple visual assurance that the solvent is still safe. If a color change has occurred, more XPell pellets can be added to return the solvent to a safe condition.



## XPell features:

- Neutralizes peroxides as they form
- Inert to solvents and non-contaminating
- Distinct blue color indicates the absence of peroxide
- No special disposal requirements
- Long shelf life
- Color change alerts the user for the need to add additional pellets to stabilize the solvent



## XPell advantage:

- Improved laboratory safety and prevention of peroxide related explosions/accidents
- Increased efficiency by increasing the usable life of solvents
- Significant cost savings from less frequent purchase and disposal of unstable solvents. Allows the purchase of more economical larger quantities of solvents
- Improved analyses by eliminating stabilizers and traces of peroxide that can complicate trace analysis procedures

