Based on sophisticated colorimetric technology, Pacific Sentry (www.pacificsentry.com) has developed a new cat litter additive that tells cat owners whether or not their litter or bedding is being properly maintained or if the litter/bedding needs to be replaced. Simply observe the color change of the litter for an indication of when it’s time to scoop or change the litter.

Orange = no ammonia and the litter is in good status and working properly.

Green/Blue = ammonia present and the litter needs to be scooped/changed.

Many litter and bedding products claim to: absorb urine, bind feces, absorb ammonia, and reduce odors of used litter; however, no litter or bedding products indicate whether the litter is working as intended to absorb odors, particularly ammonia or inform the user when the litter needs to be replaced.

Color response from fumes of standard household ammonia (~5%)

Video available at: https://youtu.be/10LVACq165g
Testing various name brand litters:

Test:
- Pacific Sentry’s Ammonia-Sensing Additive mixed into four name brand litters
- Ratio: ~3:5, Ammonia-Sensing Additive:Name Brand Litter
- Litter+Additive per Beaker: ~25 cc
- Cat Feces per Beaker: ~3 cc (at bottom of the beaker)
- Test Duration: ~18 hrs.

NOTE: There is no claim being made regarding the odor-reducing efficacy of any of these litters. This video was created strictly to demonstrate Pacific Sentry’s ammonia-sensing technology.

Features:
- Color-Responsive Technology
- Long Lasting
- Easy to Use & Cost Effective
- Continuous Monitoring 24/7
- High Sensitivity to Ammonia
- Reversible Ammonia Response

Video available at: https://youtu.be/8NsegEHyK7A
**Benefits:**

- Inform cat owners of when to scoop or change the litter.
- Help prevent owners’ homes from smelling of cat urine/feces.
- Determine which litter is best for controlling offensive odors, e.g. ammonia, and which litter “lasts” the longest.
- Potentially save money from less frequent litter exchanges if the owner is needlessly/excessively changing the litter.
- Give “nose blind” owners (especially the elderly) a means to access litter status.
- Provide parents a tool to determine if their children are practicing proper pet keeping.
- Avoid offending houseguests with undetected odors because the owner has become nose blind.
- Encourage cats to use the litter box; cats are reticent to use a litter box that is not properly maintained.
- Ensure cats are breathing clean, healthy air while using the litter box- as ammonia is toxic and in high concentrations can cause health complications.

**Facts:**

- Cats urinate (pee) and defecate (poop). *Duh... everyone knows that.*
- Urine and feces produce ammonia through natural biological processes.
- We can monitor ammonia – even at low levels which are undetectable to humans – but that cats can and do smell.
- A cat’s sense of smell is 14 times better than a human’s.
- Cats won’t use a litter box that “stinks” too much.
- People are biologically built to become nose blind, so even if you can’t smell it, your cats and houseguests likely can.
If the cat is “picky” about its litter and won’t switch to a new litter, yet the owner still wants this capability, Pacific Sentry has also developed a Cat Litter Monitor which can be used with any existing or preferred cat litter. Similar to the litter additive, the monitor changes color indicating whether or not their litter or bedding is being properly maintained or if the litter/bedding needs to be replaced.

**Test:**
- Pacific Sentry’s Ammonia-Sensing Cat Litter Monitor
- Litter: ~250 cc Name Brand Cat Litter
- Cat Feces: ~60 cc (buried ~0.5-1” bellow litter surface)
- Test Duration: ~5 hrs.

![Image of monitor before and after test](https://youtu.be/6hgyHGd8mLo)

**Licensing:**
Pacific Sentry is currently seeking and assessing licensees and licensing proposals for the Ammonia-Sensing Cat Litter Additive and Cat Litter Monitor. If you have interest in licensing this technology, please email us (licensing@catlittermonitor.com) and we would be happy to contact you to discuss this opportunity further.

The technology can also be used in many other applications and markets where there is need to determine the presence, and/or measure the amount, of volatile acids and volatile bases in gaseous or liquid states.

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