



## SAVING PETS' LIVES, 24 HOURS A DAY, 7 DAYS A WEEK

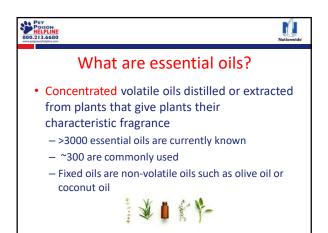


## Sniffing Out the Truth: Updates on the Safety of Essential Oils and Pets

Charlotte Flint, DVM, DABT Senior Consulting Veterinarian, Clinical Toxicology Pet Poison Helpline



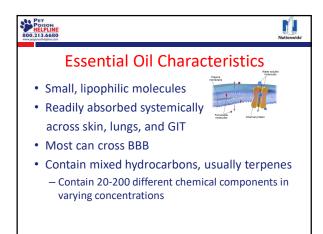
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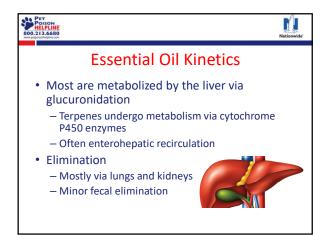


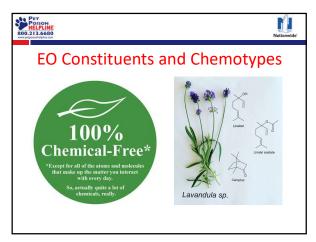




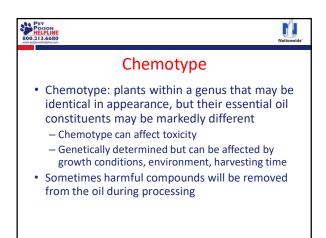




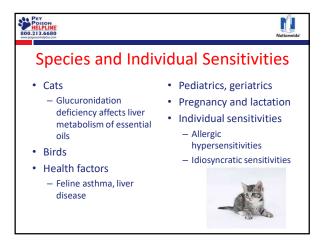










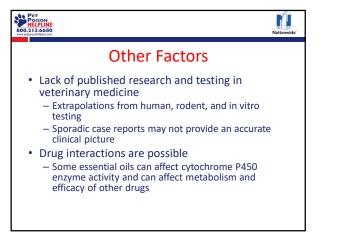


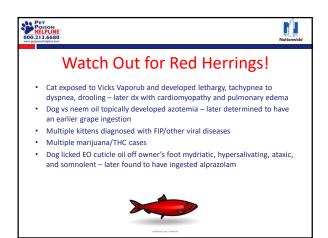


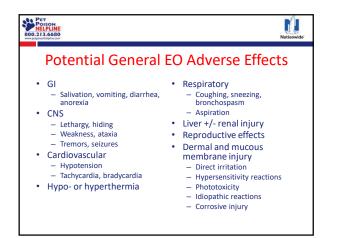
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## Plants and their extracts are not standardized Variability in cultivars and chemotypes, part of plant used, growth conditions, geography, maturity, time when harvested Which is the active chemical component? Which components are beneficial, which are harmful? Are they synergistic? Potential for plant name or ID confusion Potential for adulteration Other plants, herbicides, pesticides

- Other oils or carriers may be added but not declared







## Per Poison HELPLINE 800.213.6680

## Nationwid

## EOs and the GIT

Taste reactionsGl irritation – vomiting, diarrhea



- Aspiration risk with larger ingestions
- Mucous membrane irritation, erosions – Concentration dependent
  - Higher risk with oils that contain cinnamaldehyde (cinnamon, cassia), eugenol (clove, cinnamon), carvacrol (oregano, savory, thyme), thymol (thyme, oregano)

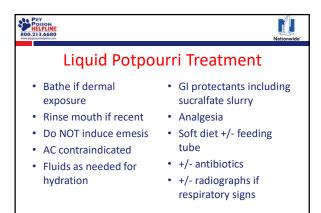
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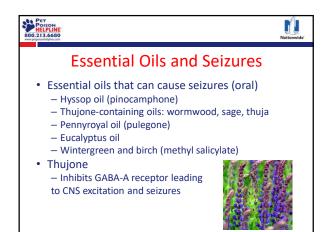
# Essential oils + cationic detergents Cats are most sensitive Cationic detergents cause corrosive injury to mucous membranes Signs usually develop within 4-6 hours but may take up to 12 hours to show full extent of injury

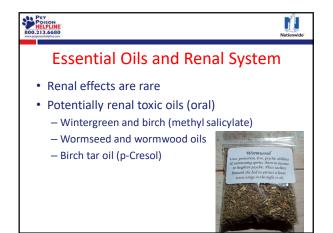












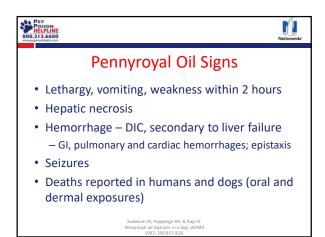
## Pet Poison HELPLINE 800.213.6680



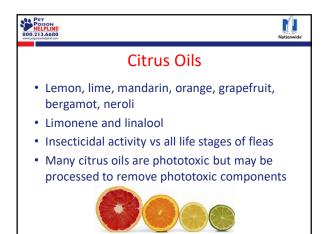
• Mentha pulegium – mint family

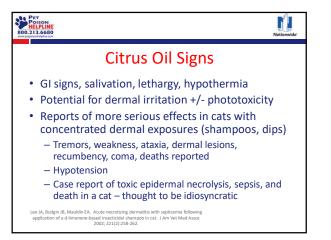
**Pennyroyal Oil** 

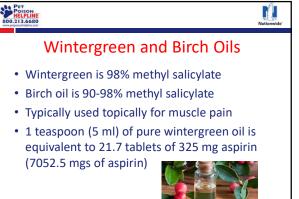
- Historically used as a flea/tick repellant, to give a mint flavor to foods, and to attempt to induce menstruation and abortion
- Pulegone the toxic component 62-97%
   Metabolites are hepatotoxic menthofuran





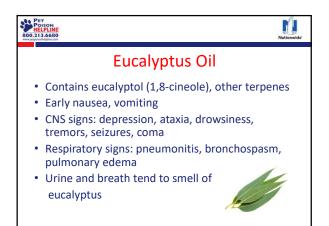


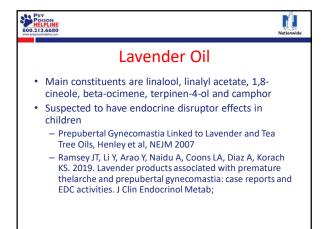












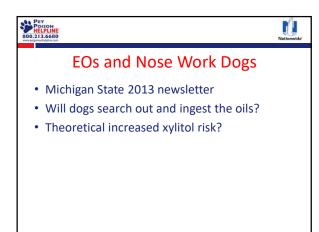
## Pet Poison HELPLINE 800.213.6680 N. Lavender Oil and Dogs • Evaluation of the effect of topical application of lavender oil on autonomic nerve activity in dogs. Komiya et al, Am J Vet Res. 2009 - Undiluted lavender oil applied to pinnae of 5 beagles, no AEs reported Some evidence that topical application of lavender oil affected vagal activity in dogs (lower HR), though equivocal

- Aromatherapy for travel-induced excitement in dogs. Wells DL, JAVMA. 2006 •
  - Lavender-soaked cloths placed on car headrest, no AEs reported More time resting and sitting and less time moving and vocalizing compared to control dogs

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## Content of the second second

## Pet Poison HELPLINE 800.213.6680 N Symptomatic/Large Exposures • Do not induce emesis • Consider chest rads, blood gas if resp signs Activated charcoal • Lab work if a liver toxic • Fluids oil, large and/or • GI support concentrated oil • Hepatoprotectants exposure, ill pet - NAC 5%: 140 mg/kg to • Anticonvulsants load, then 70 mg/kg q 6 • ILE? h x 7-17 doses IV or PO – SAMe

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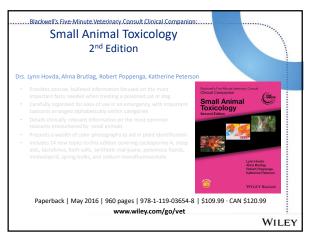














## Pet Poison HELPLINE 800.213.6680

## PPH World: Australia & New Zealand

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Our services are available 24/7 to any veterinary professional in Australia by calling **0011-800-4444-0002** and

New Zealand by calling 00-800-444-0002.

For more information please visit our website: https://www.petpoisonhelpline.com/pphworld

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## PPH is Hiring!

- FT & PT CVT/RVT/LVT -daytime & evening, full and part time hours available!
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## Correction Correction Correction Correction Correction Correction Correction Correction Correction

- Worst of the Worst. Evaluating the Most Dangerous Toxins for Pets.
- November 10<sup>th</sup>
  - $\,\circ\,$  Hot Topic TBD

## Thank you for attending!

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