

CHEM 331: ENVIRON ORG CHEM

Research Poster on the **Structure, Distribution and Fate** of an emerging contaminant class

Student: _____

Molecule: _____

Layout – organization, headings, visuals, readability, appropriate use of diagrams, figures and illustrations, endnotes & reference citations.	15	
Presentation & Knowledge – demonstration of knowledge, ability to explain content and engage audience.	15	
Content – background and context, appropriate presentation of structure and intrinsic properties, relationship between structure and physical properties/distribution (i.e., P^o , C_w^{sat} , K_{aw} , K_{ow} , K_{oa} etc), QSARs, reactivity (i.e., hydrolysis, redox etc), mechanism/s & kinetics ($t_{1/2}$), current content and remediation/avoidance.	20	
TOTAL	50	

1. What structural features/intrinsic properties of this molecule affect its vapour pressure/water solubility and how?
2. How does this molecule tend to distribute and what is its dominant mode of transport in the environment?
3. How do these properties compare to other environmentally relevant molecules (high/medium/low)?
4. What are the dominant transformation products (if any) leading to or produced from this molecule?
5. Is it known to undergo hydrolysis and if so, what is known about this mechanism?
6. What sort of environmental factors (e.g., T, pH, redox, hv) influence the half-life of this molecule in the environment and how?

Comments:

Marker: _____