

Requirements for Chemicals in Public Tenders

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Content

- Short presentation
- "Svanen" and "Blomsten"
- Other "marks"
- Safety – working and environmental safety
- Desired and not-desired chemicals
- Conclusion

I am

- Chemical engineer since 1974
- Worked in universities and with education since 1980 with speciality in materials and material maintenance
- Worked as a consultant for municipalities, counties, regions, SKI and..... for more than 30 years
- I like my job!!!!

Svanen and Blomsten



Marks



Svanemærket



Blomsten



Astma-Allergi
Danmark
Den Blå Krans



BDIH-mærket



Ecocert



NATRUE



Tiltro Til Tekstiler



GOTS



Ø-mærket



EU's økologimærke



TCO-mærket



Geprüfte Sicherheit



Indeklimatekstil



CE-mærket



Godkendt Til Drikkevand

Why requirements?

For safety reasons

- For the workers
- For the users
- For animals
- For environment



CLP



Chemicals

- Surfactants
- Preservatives
- Complex formers/binders
- Micro plastics



Chemicals

Perfumes

Colorants



Chemicals

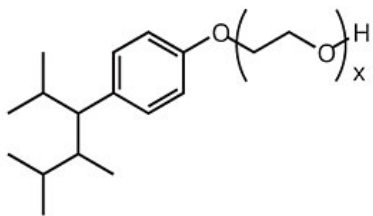
- In some products perfumes are allowed
- In some products colorants are allowed



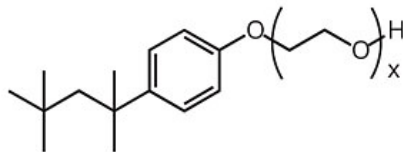
Surfactants

- Alkyl phenyl ethoxylates, APEO
- Nonyl phenyl ethoxylates, NPEO
- Linear alkyl benzene sulfonates, LAS

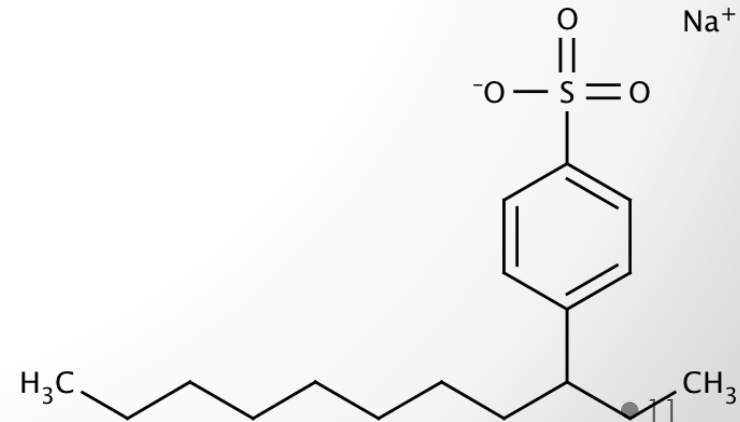
FIGURE 1 | Representative APEO chemical structures.



Nonylphenol Ethoxylate
(NPE)

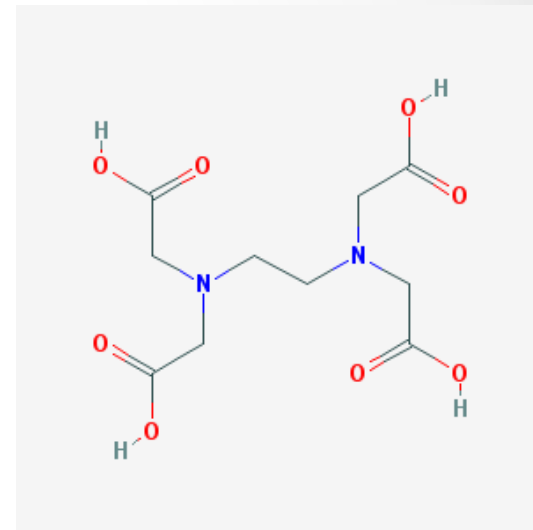
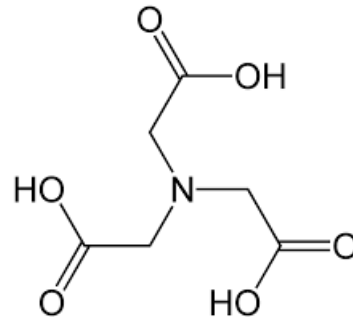
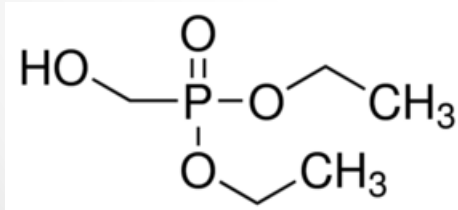


Octylphenol Ethoxylate
(OPE)



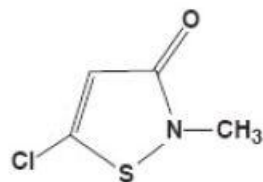
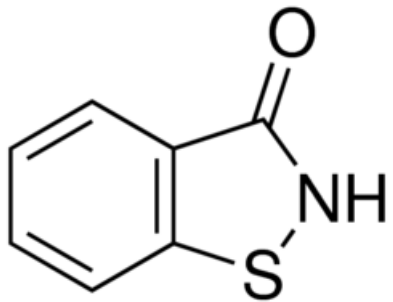
Binders

- Ethylene diamine tetra acetic acid, EDTA
- Nitrilo acetic acid, NTA
- Phosphonates



Preservatives

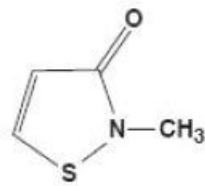
- Isothiazolinone, MIT, MCIT and mixtures
- Benzisothiazolinone, BIT
- 2-bromo-2-nitropropane-1,3-diol (Bronopol)
- Trichloro phenoxy phenol (triclosan)



Methyl Chloro
Isothiazolinone

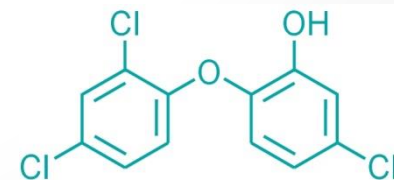
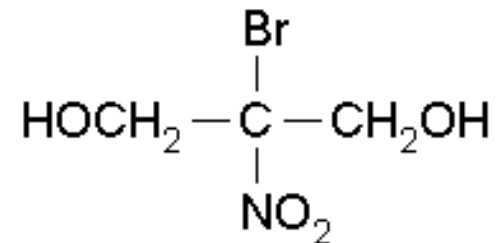
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Methyl
Isothiazolinone

1



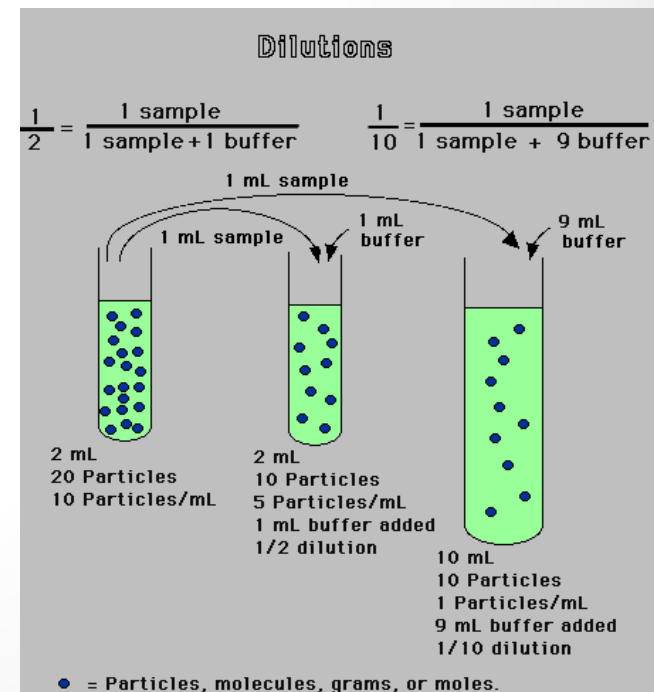
Triclosan



Water

We want concentrated products

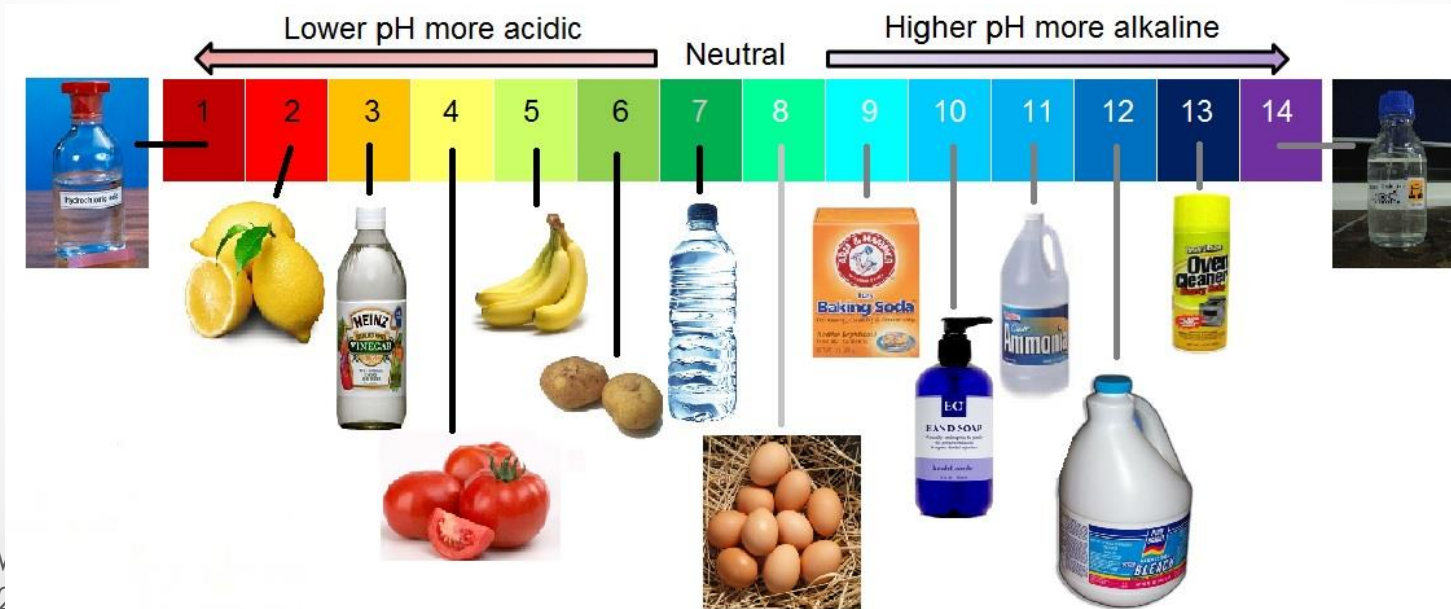
- But not more concentrated that they can be dosed in the right way!!!!



pH- values

Products shall be as neutral as possible

- But the products shall be able to fulfill their job!!!!



Powders

Powders can be used

- When the dust from the powders will give no safety problems for the user



Conclusion

The criteria in "Svanen" are used
But – other requirements are set up

Products shall be safe for

- The user
- The environment

And products shall be able to do their "job"

Thank you for your
attention

Any

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