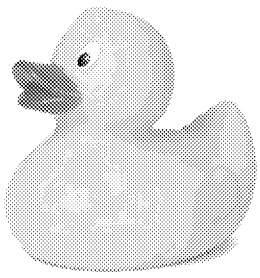
Phthalate Substitutes

- Contract with University of Cincinnati
- Written toxicology assessments for 16 *o*-DAP Substitutes
  - Literature search
  - Physical-chemical properties
  - Manufacture and use
  - Toxicokinetics
  - Human and mammalian toxicity
  - Exposure and risk information
  - Data gaps
  - Toxicity determinations under FHSA



Phthalate Substitutes

Toxicology Assessments for 16 *o*-DAP Substitutes

Completed

Publicly available

- Acetyl tri-n-butyl citrate (ATBC)
- Di(2-ethylhexyl) adipate (DEHA)
- Diisononyl hexahydrophthalate (DINCH)
- Di(2-ethylhexyl) terephthalate (DEHT)
- Trioctyltrimellitate (TOTM)
- 2,2,4-Trimethyl-1,3-pentanediol diiosbutyrate (TXIB)

Available soon

- Di-(2-Propylheptyl) Phthalate (DPHP)

In Progress

Available in late Spring 2019

- Tributyl citrate (TBC)
- Dibutyl and diisobutyl adipate (DBA, DiBA)
- Diisononyl adipate (DINA)
- Di(2-ethylhexyl) sebacate (DEHS)
- Dibutyl sebacate (DBS)
- Eastman 168
- Phenyl esters of C10-C18 alkylsulfonic acids
- Epoxidized soy bean oil
- Soft-n-safe - 12-(Acetoxy)-stearic acid, 2,3-bis(acetoxy)propyl ester (84%), octadecanoic acid, 2,3-bis(acetoxy)propyl ester (COMGHA)

https://www.cpsc.gov/Research--Statistics/Technical-Reports