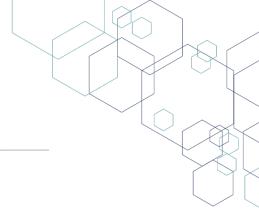
HIGH MOLECULAR WEIGHT PHTHALATES: AN OVERVIEW OF THE TSCA RISK EVALUATION PROCESS

November 21, 2019



Agenda



Introduction to Phthalates

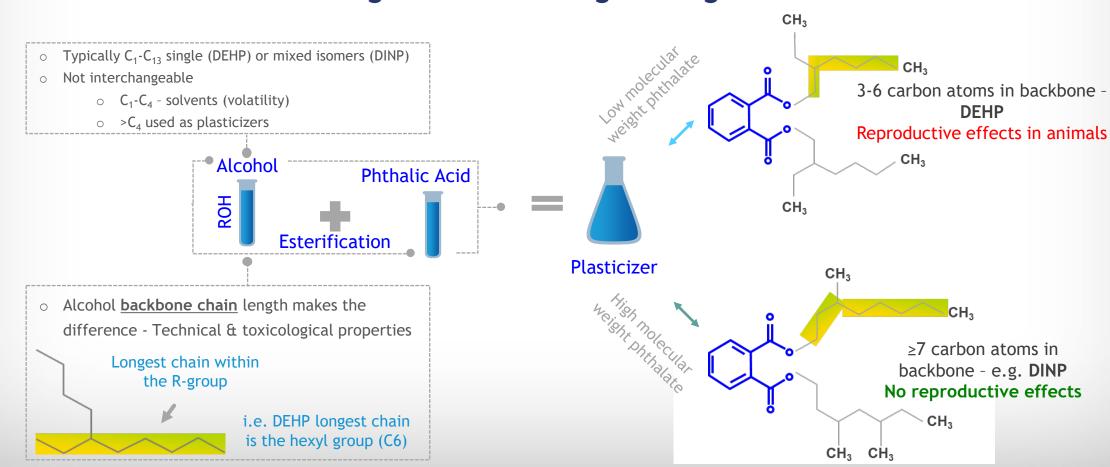
Uses

State of the Science and Regulatory Reviews

Risk Evaluations under TSCA

Why then would we treat all phthalates as if they were the same?

- Term "phthalate" represents a family of structurally similar substances
- Differentiated into low and high molecular weight categories



HIGH PHTHALATES

Make Many Products You Use Every Day Possible

High phthalates, such as DINP and DIDP, make a wide variety of products that Americans and people around the world use every day possible. These chemical building blocks have been reviewed and determined safe to use in all of these consumer products:

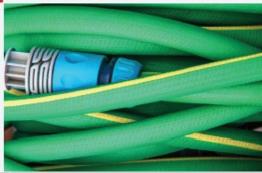
High phthalates are used in PVC insulation for electrical wiring that connects and supports our electronic devices, including TVs and computers, imparting many benefits, including low temperature flexibility, heat resistance, and electrical resistivity.





Many of the components of your car interior are made possible through the use of high phthalates. They are used for upholstery and interior finishes because of their durability, UV resistance, and ability to withstand extreme temperatures.

High phthalates impart flexibility to hoses (and soft handles for garden tools) that are used in household and business applications.



High phthalates also make possible the interior flooring, wall coverings, roofing membranes and pool liners that are in millions of households, by providing excellent durability, longevity, and weather resistance.





High phthalates make coated textiles that are used to make your clothing and luggage more durable and water resistant.

High phthalates are used in a multitude of products that demand long-lasting wear and durability, including sporting equipment, footwear, shower curtains, PVC gloves and non-animal leather for high-end furniture.





High phthalates are approved by several food safety regulatory agencies, including the US FDA and EU's EFSA, for use in some food contact products, such as conveyor belts used in food processing.





Structural differences in the 5 EPA high priority phthalates are reflected in existing regulatory determinations

DINP, DIDP, DNOP

EU CLP - Not classified

US CPSC - Safe margin of exposure found for DINP, DIDP and DNOP individually



BBP, DBP, DIBP, DEHP, DCHP

Classified as category 1B reprotoxicants under EU REACH

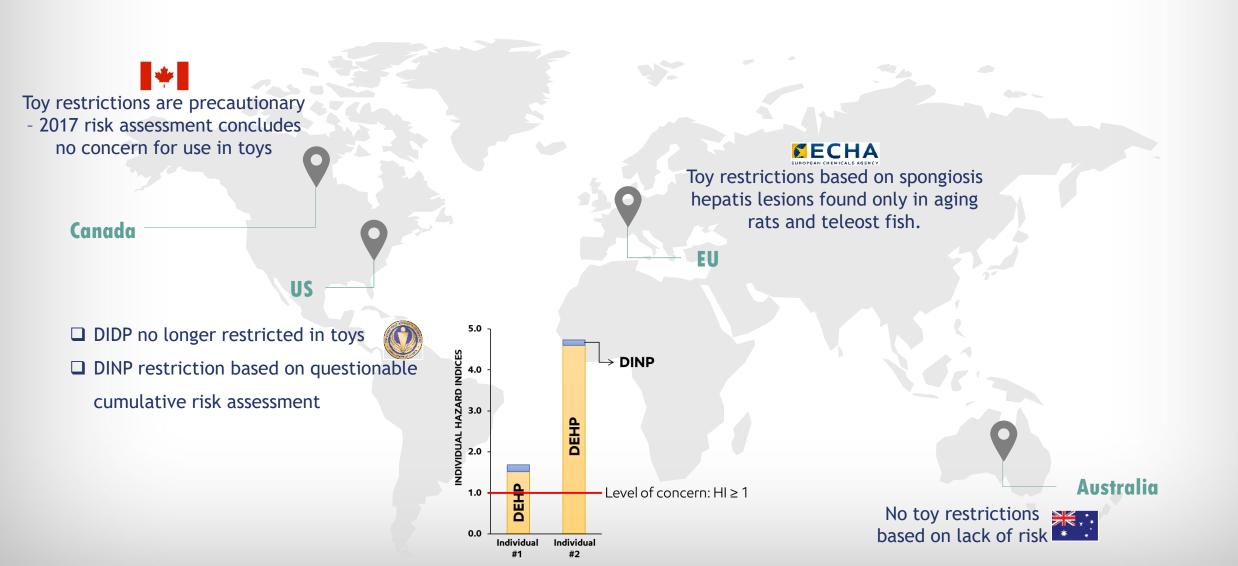


DINP / DIDP - Safe in all current applications



- o ECHA
- Health Canada "low risk"
- Australia NICNAS no toy restrictions

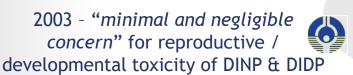
DINP & DIDP toy restrictions are precautionary and do not reflect a credible health risk



The safety of DINP & DIDP has been reviewed extensively over the past 20 years



2001 - "no demonstrated health risk" from use of DINP in toys



2017 - toy and childcare restrictions on DIDP lifted - "risks of use are low"



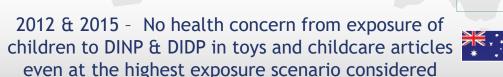
2003 - "there is at present no need for further information and/or testing for risk reduction measures beyond those which are being applied already"



2014 - "no unacceptable risk has been characterized for the uses of DINP and DIDP in articles other than toys and childcare articles which can be placed in the mouth" **EECHA**

2018 - no basis to classify DINP for reproductive / developmental effects







Risk Evaluation: Statutory Requirements

- EPA must establish by rule a process for risk evaluation
 - Determine if a chemical presents an unreasonable risk of injury to health or the environment under conditions of use
 - Without consideration of cost or other non-risk factors
 - Including unreasonable risk to potentially exposed or susceptible subpopulation(s) determined to be relevant to the evaluation
- This process must be completed within 3 3.5 years
- For each risk evaluation completed, EPA must designate a new high-priority chemical (the culmination of the prioritization process)
- By December of 2019, EPA must have 20 chemicals designated as high-priority and undergoing risk evaluation
 - Additional risk evaluations may come from manufacturer requests

Prioritization

- EPA will conduct a risk-based screening of all active chemicals from the inventory to identify those in need of a full evaluation
- If more information is needed, EPA can request additional testing and data



Low Priority Chemicals:

- Remain in use without further action
- Can be reprioritized based on new information at any time

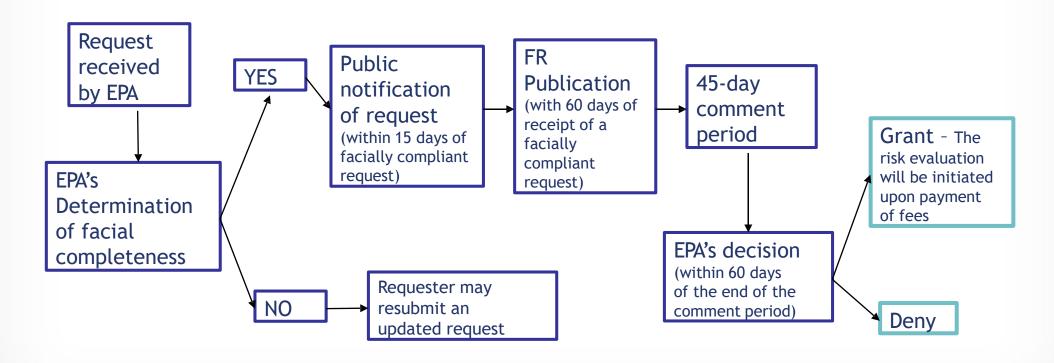


High Priority Chemicals:

- Require a risk evaluation
- First 10 must be from TSCA Work Plan
- For each risk evaluation completed,
 EPA must designate a new high
 priority chemical

Manufacturer Requests

Conditions of use - Manufacturers may request a risk evaluation for only uses of interest. EPA will identify other conditions of use that warrant inclusion in the risk evaluation.



Risk Evaluation

High Priority chemicals will undergo a full evaluation of hazards, uses, exposure, to determine risk

Risk Evaluations must:

- Be based solely on health & environmental information
- Consider a chemical's conditions of use
- Consider risks to vulnerable groups
- Rely on the best available and weight of scientific evidence



*EPA can again request more information & data if needed.

Do you know the difference between hazard & risk?

More Resources



https://www.mindthescience.org/chemicals-in-products/phthalates



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Questions?