Inadvertent PCBs

Identifying Pigments Made without Chlorine

Status Update to SRRTTF TSCA Workgroup

Noah Maddock, Lauren Heine (in absentia)

6/1/2022

Join Zoom Meeting

https://us02web.zoom.us/j/87427795365

Progress Report

- **Overall progress:**
  a. Research >99% complete (just waiting for a couple of structures)
  b. Software development 55% complete
  c. Data population and curation 50% complete
  d. Communications and Outreach 5% complete
- We have created fields, tags, info button text - <u>LINK</u> to Annex (discussed last meeting)
- **Software development:**
  a. Completed:
     i. Enter and display the color index number as an identifier - DONE
     ii. Limit chemicals in the vertical to pigments- DONE
     iii. Added TSCA inventory as a search list (Active, Inactive, Not on TSCA)- DONE
     iv. Added EPA SCIL Status as tag and as list- DONE
     v. Added info buttons and updated text in the information buttons for each field - DONE
  b. In process:
     i. Upload and VIEW the hand drawn structures to override pubchem; using Pubchem structures when available and when hand drawn structures are not available- **IN PROCESS**
     ii. Hide the hazard bands on the landing pages, search pages, and individual chemical pages- **IN PROCESS**
     iii. Reorder the tags in the left hand margin **- IN PROCESS**
     iv. Update the text for the landing page of the database - See proposed text slide 4- **IN PROCESS**
- Will start QC on all the data and fields once all of the final structures are in

Discussion: Current PLACEHOLDER TEXT for Landing Page (not applicable to pigments)

PIGMENTS

WITH THIS PLATFORM YOU CAN

- Identify and eliminate chemicals with high hazards from over 130,000 authoritative entries;
- Avoid regrettable substitutions with functional alternatives;
- Design with verified low-hazard ingredients from the beginning;
- Request a chemical hazard assessment when a data gap exists

With these tools, you will be able to manage risk and uncertainty, take control of your chemicals management, and communicate confidently (backed by science) with your partners, investors, and customers.

HOW TO GET STARTED

NEWLY ADDED CHEMICALS

rine

Status

Discussion: PROPOSED text for landing page - short and sweet…

This database was commissioned by the Spokane River Regional Toxics Task Force to help reduce the presence of inadvertent PCBs in pigments that can reach water bodies such as the Spokane River.

It was designed and built as a resource to help understand which pigments include chlorine in their molecular structure and/or whether chlorinated solvents are used in the process of manufacturing the pigment - regardless of whether or not chlorine is part of the pigment structure.

Caveat: The use or presence of chlorine in a pigment or in the pigment manufacturing process does not definitively determine that inadvertent PCBs are present in a pigment. While it is known to be true for some pigments such as the diarylide yellows, it may not be true for all.

Notes from 6/1/2022

1.

Annexes Follow

Proposed Fields and Tags: See also info buttons: LINK

Scope
- Organics
- NOT inorganics (no inorganics used in printing)

Individual pigment identifiers include
- Color Index Number (NOT the color index constitution number)
- CAS number
- Structure (hand drawn)- in development
- Other automated identifiers (SMILES, Inchi?); in the app

Heading and Tags

- **Pigment colour category**
  - Tags
    - Red
    - Orange
    - Etc.
- **Applications**
  - Tags
    - Coatings
    - Inks
    - Plastics
- **Commercial availability**
  - Tags
    - Yes
    - No
    - Unknown

- **Molecule contains chlorine**
  - Tags
    - Yes
    - No
    - Unknown
    - Manufacturer dependent
- **Manufactured using chlorine-containing solvent**
  - Tags
    - **Yes**
    - **No**
    - **Unknown**
    - **Manufacturer dependent**
- **Pigment Class**
  - Tags
    - **Alot of them (see database or workbook)**

- **US EPA SCIL**
  - Tags
    - Green circle
    - Yellow Triangle
- **TSCA Inventory**
  - Tags
    - Active
    - Inactive
    - Not on TSCA

Administrative

Contract signed with starting date of 4 February 2022

Team is convening every two weeks to maintain momentum

Updates will be provides at SRRTTF TSCA Workgroup calls

TSCA Workgroup will provide feedback on design

Timeline

The project timeline extends over one year starting from the point of project approval by the SRRTTF and signing of the contract. A member of the ChemFORWARD team will provide updates at the monthly SRRTTF TSCA Workgroup/Green Chemistry call.

Task	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Research	x	x	x	x								
Software Development				x	x	x	x	x	x			
Data Population and Curation							x	x	x	x		
Communications and Outreach											x	x