

Inadvertent PCBs

Identifying Pigments Made without Chlorine

Status Update to SRRTTF TSCA Workgroup

4/6/2022

Administrative

Contract signed with starting date of 4 February 2022

Team is convening every two weeks to maintain momentum

Updates will be provided at SRRTTF TSCA Workgroup calls

TSCA Workgroup will provide feedback on design

Progress Report

- Progress:
 - a. Research 50% complete
 - b. Software development 15% complete
 - c. Data population and curation 20% complete
- We have proposed fields and/or tags - [LINK](#)
- We have submitted App Development requests
 - a. Enter and display the color index number as an identifier
 - b. Upload and VIEW the hand drawn structures to override pubchem; use Pubchem when available and don't have hand drawn structure

Proposed Fields and Tags

- Scope
 - Organics
 - NOT inorganics (no inorganics used in printing)
- Identifiers
 - Color Index Number (ready to deploy if not already deployed)
 - NOT the color index constitution number
 - CAS number
 - Structure (hand drawn)- in development so it can be displayed
 - Other automated identifiers (SMILES, Inchi?); show what is in the app
- Color
 - Red
 - Orange
 - etc.
- Application (info box?)
 - Coatings
 - Inks
 - Plastics
- Pigment class-
- Commercial availability (info box?)
 - Yes
 - No
- Chlorine status (allow for combinations) (info box?)
 - Molecule contains chlorine
 - Molecule does not contain chlorine
 - Manufactured with chlorinated solvent
 - Not manufactured with chlorinated solvent
- US EPA SCIL status

The pigment pages will NOT include chemical hazard assessments unless they are already available in ChemFORWARD

Created new field entry and display for Color Index Number

Dashboard

C.I. Pigment Green 7 CAS #: 1328-53-6 INCI: CI 74260 IN DRAFT

Chemical Assessment

- Chemical Attributes
 - Chemical Attributes
- Human Health (0/9)
 - Carcinogenicity
 - Mutagenicity
 - Reproductive & Developmental Toxicity
 - Endocrine Activity & Disruption
 - Mammalian Toxicity
 - Neurotoxicity
 - Sensitization
 - Corrosion / Irritation
 - Aspiration
- Environmental (0/5)
 - Aquatic Toxicity
 - Persistence
 - Bioaccumulation

Chemical Attributes

Common Base Polymer Inorganic Botanical Scores

Name
C.I. Pigment Green 7

INCI Name
CI 74260

EC Number
Enter EC number

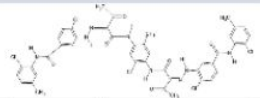
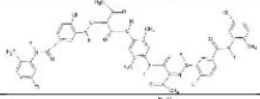
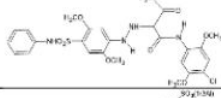
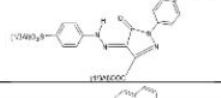
Color Index Number (optional)
E.g. *Pigment Yellow 1*

SMILES (optional)
Enter SMILES string
Simplified Molecular-Input Line-Entry System

Alternate Names
[Add an Alternate Name](#)

Workbook in process

1 fx Typically commercially available

| | A | B | C | D | E | F | G | H | I |
|----|--------------------|------------|---|---------------------|------|----------|----------------------------------|-------------------|--|
| 1 | Colour Index Nun | CAS No. | Chemical Structure | Typical Application | | | Typically commercially available | Contains Chlorine | Manufactured using Chlorine containing solve |
| 2 | | | | Coatings | Inks | Plastics | Yes/No | Yes/No | Yes/No |
| 29 | Pigment Yellow 94 | |  | No | No | Yes | Yes | Yes | Yes |
| 30 | Pigment Yellow 95 | |  | No | No | Yes | Yes | Yes | Yes |
| 31 | Pigment Yellow 97 | |  | Yes | No | No | Yes | Yes | No |
| 32 | Pigment Yellow 100 | 12225-21-7 |  | Yes | Yes | Yes | Yes | No | No |

Demo of ChemFORWARD infrastructure

1. Chemical searching
 - a. The pigment database will contain ONLY organic pigments
2. Individual chemical pages and tabs
 - a. Summary
 - b. Hazards
 - c. Properties
 - d. Identifiers
 - e. Regulatory lists
 - f. Non regulatory lists
3. Tags (see next slide)

Questions for Discussion

1. Feedback on the information fields
 - a. Chlorine status
 - b. Commercial availability
 - c. Pigment Color category
 - d. Function
 - e. US EPA SCIL
2. How would you determine commercial availability?
3. Should we report chemical hazard ratings?
4. What about relevant regulatory and non-regulatory lists?
 - a. Government (i.e. TSCA Inventory, Canadian DSL, REACH)
 - b. ETAD standard?
 - c. Positive lists (i.e. US EPA SCIL)
5. Canadian DSL has some pigment risk assessments; link to those?
6. Should we indicate pigment class?

ChemForward Alternatives

Search by | CAS, Name, INCI Name

Chlorine Status ⓘ >

Commercial Availability ⓘ >

Pigment Color Category ⓘ >

Function >

US EPA SCIL ⓘ >

- Manufactured with chlorinated solvent(s) (21)
- Molecule contains chlorine (118)
- Molecule does not contain chlorine (138)
- Not manufactured with chlorinated solvent(s) (230)

With these tools, you will be able to manage your chemical inventory and customers.

ChemForward Alternatives

Search by | CAS, Name, INCI Name, EC Number

Cart (0) My

Chlorine Status ⓘ >

Commercial Availability ⓘ >

Pigment ⓘ >

Function ⓘ >

US EPA SCIL ⓘ >

Filters indicating whether a given chemical is commercially available or not.

PIGMENTS

- Commercially Available (129)
- Not Commercially Available (137)

- Design with verified low-hazard alternatives
- Request a chemical hazard assessment

With these tools, you will be able to

Chlorine Status ⓘ >

Commercial Availability ⓘ >

Pigment Color Category ⓘ >

Function >

US EPA SCIL ⓘ >

Black (3)

Blue (23)

Brown (8)

Green (10)

Orange (40)

Red (156)

Violet (21)

Yellow (112)

PLATFORM YO

and eliminate

regrettable sub

with verified k

a chemical h

ols, you will b

and customers.

Function

US EPA SCIL ⓘ



- Design with verifie

Green circle (3)

Yellow Triangle (3)

and customers.

Chlorine Status ⓘ



Commercial Availability ⓘ



Pigment Color Category ⓘ



Function



US EPA SCIL ⓘ



PIGMENTS

WITH THIS PLATFORM YOU CAN

- Identify and eliminate chemi

Pigment for Coatings (118)

Pigment for Inks (140)

Pigment for Plastics (98)

stitutor

ow-haza

azard as

with these tools, you will be able to
and customers.

Notes from 4/6/2022

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