BEST PRACTICES FOR THE LOCATION INDICATOR

Version: 2023-07-20

BACKGROUND

A need has been identified to implement location-based information into the HPD in order to evaluate Social Equity concerns. The goal is to capture where the products are manufactured and where the substances and materials used as ingredients are made, extracted, farmed, refined, etc. This data can then be used, by the product manufacturer or an HPD user, to identify potential social equity concerns by cross-referencing those locations with databases containing information concerning human rights abuses, environmental justice, and other social equity issues.

The location indicator will be optional for all levels of product structure: product, part, material, and substance. The location indicator consists of three data fields:

- Location
- Country
- Process Stage

Using the Online Maps API, a user can provide the product manufacturing location and locate the sources of materials or substances used in the product.

This information will be volunteered by the HPD participant while concerns about the confidentiality of proprietary information are addressed; the specific location can be undisclosed with only the country publicly shown.

USE OF THIS GUIDANCE IS OPTIONAL

This feature is optional for manufacturers who want to publish a complete HPD. However, it is anticipated that HPD users will use this function to evaluate the ethics involved in the production of these materials.

GLOSSARY

API: Application Programming Interface.
Country: The country of origin for listed materials or substances and/or company headquarters, selected from a pull-down menu.
Location: The Latitude and Longitude coordinate acquired through the Google API implemented into the HPD builder.
Process Stage: The type of production process present at the source location, selected from a pull-down menu.
Tier 1 Suppliers: Partners that supply substances or materials that are used directly by the manufacturer. This would not include a distributor, but whoever last made/processed/etc. the substance or material used as an ingredient in the product.
Tier 2 Suppliers: Suppliers where your Tier 1 Supplier gets its substances or materials.
SCOPE

The scope of this feature is for all products that have an HPD. A product, part, material, or substance can come from multiple locations. Also, products, parts, materials, and substances can have multiple steps that occur at different locations (e.g., a mineral is mined at Location 1 but refined at Location 2). Multiple locations can be listed for the product, parts, materials, and substances. For this feature Tier 1 Suppliers are the focus for disclosure, but other levels can be disclosed.

Reference the current version of the HPD Open Standard for complete guidance on the scope of an HPD.

REPORTING OF DATA

The following mockups and text provide a representation of where the Product Type Field will appear on the HPD and how the Product Type Field will be filled out in the HPD Builder.

<table>
<thead>
<tr>
<th>HPD Data Field</th>
<th>Location Indicator Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 1: SUMMARY

No changes to requirements.

SECTION 2: CONTENT IN DESCENDING ORDER OF QUANTITY

Nested Materials – instructions apply only to the Nested Materials Inventory format

<table>
<thead>
<tr>
<th>Material Name (top level in Nested inventory)</th>
<th>No changes to requirements.</th>
</tr>
</thead>
</table>

Residuals and Impurities Notes

| No changes to requirements. |

Content – instructions apply to both Nested Materials and Basic Inventory formats. Fields unique to this Location Indicator are marked below with a double asterisk**. This mockup shows the 4 different results of the following instructions:
**Product Level:**

<table>
<thead>
<tr>
<th>Location</th>
<th>Process Stage</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>-91.5063 / 44.8115</td>
<td>All information disclosed.</td>
</tr>
</tbody>
</table>

**Substance/Material/Polymer Level:**

**CARBON BLACK**  
ID: 1333-86-4

<table>
<thead>
<tr>
<th>Hazard Data Source</th>
<th>Phares Chemical and Materials Library</th>
<th>Hazard Screening Date: 2023-06-05 6:27:17</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000 - 2.0000</td>
<td>GreenScreen: BM-1</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>List Name and Source:</td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>US CDC - Occupational Carcinogens</td>
<td>SUBSTANCE ROLE: Dye</td>
</tr>
<tr>
<td></td>
<td>CAN</td>
<td>WARNINGS</td>
</tr>
<tr>
<td></td>
<td>Occupational Carcinogen**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**</td>
</tr>
<tr>
<td></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route**</td>
</tr>
</tbody>
</table>

**ADDITIONAL LISTINGS**

- List Name and Source: CHEMFORWARD
- Notification: HAZARD BAND: F

**SUBSTANCE NOTES:**  
Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

<table>
<thead>
<tr>
<th>Location</th>
<th>Process Stage</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>-91.4961 / 44.7978</td>
<td>All information disclosed.</td>
</tr>
<tr>
<td>Canada</td>
<td>-79.6218 / 43.8794</td>
<td>All information disclosed.</td>
</tr>
</tbody>
</table>
Best Practices for the Location Indicator

Location Undisclosed:

**STAINLESS STEEL SHOWER HEAD PIPING**
ID: S30451

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%= 70.0000 - 80.0000
GreenScreen: See notes
RC: None
NANO: No
MATERIAL ROLE: Structure component

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [S30451]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: max 40% Nickel [7440-02-6: LT-1]; max 1.0% Cobalt [7440-48-4: LT-1]; max 1.0%

LISTING NOTES:
MATERIAL CONTENT NOTES: Type 304 or Type 316 Stainless Steel. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML).
Max 30% Chromium [7440-47-3: LT-P1]; max 15% Manganese [7439-96-5: LT-P1]; max 5.0% Molybdenum [7439-98-7: LT-UNK]; max 5.0% Copper [7440-50-8: LT-UNK]; max 3.0% Silicon [7440-21-5: LT-UNK]; max 1.0% Aluminum [7429-90-5: LT-P1]; Titanium [7440-32-6: LT-UNK].

LOCATIONS:
<table>
<thead>
<tr>
<th>Country</th>
<th>Location</th>
<th>Process Stage</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Undisclosed</td>
<td>Extraction</td>
<td>Location Undisclosed</td>
</tr>
</tbody>
</table>

Process Stage Undisclosed:

**TITANIUM**
ID: 7440-32-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2023-09-05 8:27:18

%= 20.0000 - 30.0000
GreenScreen: LT-UNK
RC: None
NANO: No
SUBSTANCE ROLE: Structure component

HAZARD TYPE
LIST NAME AND SOURCE
WARNINGS

PHYS:
GHS - Japan
HZ25 - Highly flammable liquid and vapour [Flammable solids - Category 1]

ADDITIONAL LISTINGS
LIST NAME AND SOURCE
NOTIFICATION

CHEMICAL HAZARDOUS ASSESSMENT
CHEMFORWARD
HAZARD BAND: 9

None found: No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

LOCATIONS:
<table>
<thead>
<tr>
<th>Country</th>
<th>Location</th>
<th>Process Stage</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>91.4961 / 44.7978</td>
<td>Process Stage Undisclosed.</td>
<td></td>
</tr>
<tr>
<td>Material / Substance Name</td>
<td>No changes to requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID (Identifier):</td>
<td>No changes to requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Data Source</td>
<td>No changes to requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GreenScreen</td>
<td>No changes to requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Role</td>
<td>No changes to requirements.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Country**              | Required Entry if using Location Indicator - Find country of origin on dropdown menu.  
                          Note: If there are multiple countries, another line item will need to be made for each additional country.  
                          Note 2: If Location is entered, Country could be extrapolated and made present. |
| **Location**             | Required Entry if using Location Indicator – Find the location through the Online Maps API.   
                          1. Search the address in the text box in the HPD Builder.  
                          2. Latitude and Longitude will automatically be filled out.  
                          3. Enter the Country.  
                          An option to keep the location “undisclosed” on the HPD.  
                          Note: All decimal places are captured and stored in the HPDC database but, only four (4) decimal places are listed on the HPD for Location. |
| Process Stage** | Optional Entry – Find the process stage on the dropdown menu. Menu Options:  
- Extraction  
- Farming  
- Harvesting  
- Manufacturing  
- Mining  
- Refining |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazards and Agency(ies) with Warnings</td>
<td>No changes to requirements.</td>
</tr>
<tr>
<td>Additional Listings</td>
<td>No changes to requirements.</td>
</tr>
<tr>
<td>Material Notes</td>
<td>No changes to requirements.</td>
</tr>
</tbody>
</table>

**SECTION 3: CERTIFICATIONS AND COMPLIANCE**

No changes to requirements.

**SECTION 4: ACCESSORIES**

No changes to requirements.

**SECTION 5: GENERAL NOTES**

No changes to requirements.
SECTION 6: REFERENCES

Add in the company headquarters’ Country and Location.

<table>
<thead>
<tr>
<th>MANUFACTURER INFORMATION</th>
<th>CONTACT NAME: Cory White</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPD Collaborative</td>
<td>TITLE: Lead Consultant</td>
</tr>
<tr>
<td>227 McKinley Avenue</td>
<td>PHONE: 715-202-0700</td>
</tr>
<tr>
<td>Eau Claire Wisconsin 54701,</td>
<td>EMAIL: <a href="mailto:corywhite@smalibusinessEHS.com">corywhite@smalibusinessEHS.com</a></td>
</tr>
<tr>
<td>LOCATION: United States</td>
<td>LATITUDE: -91.49619800</td>
</tr>
<tr>
<td>WEBSITE: <a href="http://www.smalibusinessEHS.com">www.smalibusinessEHS.com</a></td>
<td>LONGITUDE: 44.79780099</td>
</tr>
</tbody>
</table>

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.