Ingredient Disclosure Using GS1 Standards

IC2

Carrie Wilkie, Vice President Standards Management, GS1 US
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GS1 Serves Business Around the World

112 Member Organizations
2,000,000 Member Companies

150 countries served
2,000 people helping us
When there’s no global standard....
The global language of business

**GS1 Standards**

**Identify**  
GS1 Identification Numbers  
Companies, Products, Locations, Logistics, Assets, and Services

**Capture**  
GS1 Data Carriers  
Barcodes and EPC-enabled RFID

**Share**  
GS1 Data Exchange  
Master Data, Transactional Data, and Physical Event Data
GS1 System of Standards

IDENTIFY: GS1 System Identification Numbers

- **GLN** Global Location Number
- **GTIN** Global Trade Item Number
- **SSCC** Serial Shipping Container Code
- **EPC** Electronic Product Code

CAPTURE: GS1 System Data Carriers

**Barcodes**
- EAN/UPC
- GS1 DataBar
- GS1 DataMatrix
- ITF-14
- GS1-128

**EPC-Enabled RFID Tags**

SHARE: GS1 Interface Standards for Electronic Commerce

- **Master Data** Global Data Synchronization Network (GDSN)
- **Transactional Data** eCom/EDI
- **Physical Event Data** EPC Information Services

INTEROPERABILITY
Cross-industry working groups continuously identify attributes needed to support business processes

- Attributes are standardized through a Global Standards Management Process (GSMP)
- Standardized attributes are added to the Global Data Dictionary (GDD)
- Standardized attributes can be used across the mechanisms found in GS1 “Share” Standards and beyond

Partnered with RILA to facilitate a cross-industry workgroup to evaluate standardized chemical and regulatory attributes available in the GDD for use in the GDSN
RILA Use Case Using GDSN

How Will This Work?

- **Third Party Chemical Assessment Company**
- **Source Data Pool**
- **Recipient Data Pool**
- **Data Supplier**
- **Data Recipient**

- **GS1 Global Registry**

- **Existing**
- **Possible Data Pool Value Add**
- **Outside GDSN Process, but with GS1 Standard Attributes/Definitions**
Hazardous Waste Information

- Six attributes that are repeatable for state-specific requirements

<table>
<thead>
<tr>
<th>GS1 Attribute</th>
<th>Field Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>isAcutelyHazardousWaste</td>
<td>Non-binary Logic</td>
<td>An indicator whether or not the Trade Item contains wastes that would cause death, disabling personal injury, or serious illness. These wastes are more hazardous than ordinary hazardous wastes.</td>
</tr>
<tr>
<td>isUniversalWaste</td>
<td>Non-binary Logic</td>
<td>Indicates if a product can be considered universal waste. Universal waste is defined as &quot;are wastes that do not meet the regulatory definition of hazardous waste, but are managed under special, tailored regulations&quot;</td>
</tr>
<tr>
<td>hazardousWasteCode</td>
<td>Text (1-35 Characters)</td>
<td>A classification of hazardous waste managed at the federal or state level for example EPA Hazardous Waste Code of D00 (Ignitable waste).</td>
</tr>
<tr>
<td>hazardousWasteAgency</td>
<td>Text (1-200 Characters)</td>
<td>The Agency for the Classification of Hazardous Waste. The specific hazardous waste code for the federal or state regulation that applies to the product for example US EPA.</td>
</tr>
<tr>
<td>hazardousWasteDescription</td>
<td>Text (1-1000 Characters)</td>
<td>A description of the classification of hazardous waste managed at the federal or state level for example EPA Hazardous Waste Code of D00 (Ignitable waste). Allows for the representation of the same value in different languages but not multiple values.</td>
</tr>
<tr>
<td>nonHazardousWasteDescription</td>
<td>Text (1-1000 Characters)</td>
<td>A classification of non-hazardous waste managed at the federal or state level for example a code for disposal of latex paint. Allows for the representation of the same value in different languages and multiple values.</td>
</tr>
</tbody>
</table>
Transportation Classification

- Nine attributes that are repeatable for ground, domestic and international air requirements

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<th>GS1 Attribute</th>
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<tbody>
<tr>
<td>transportationModeRegulatoryAgency</td>
<td>Text (1 - 200 Characters)</td>
<td>The agency requiring information based on a specific mode of transportation for example ADR, IATA, DOT, IMDG.</td>
</tr>
<tr>
<td>transportationModeCode</td>
<td>Code [values for this attribute supplied by HazardousMaterialsTransportationModeCode]</td>
<td>The type of vehicle used for the transportation of a hazardous material.</td>
</tr>
<tr>
<td>shippingRegulationException</td>
<td>Description (1 - 1000 Characters)</td>
<td>The reason that something is prohibited for transportation using a specific mode as a description. Allows for the representation of the same value in different languages.</td>
</tr>
<tr>
<td>specialRequirementsDescription</td>
<td>Description (1 - 1000 Characters)</td>
<td>The reason that something is prohibited for transportation using a specific mode as a description. Allows for the representation of the same value in different languages.</td>
</tr>
<tr>
<td>classOfDangerousGoods</td>
<td>Text (1 - 4 Characters)</td>
<td>The dangerous goods classification of the trade item. Dangerous classes explain in general terms the hazardous nature and properties of the goods and serves to classify them together in terms of their most significant risk. Recommend to use codes listed in the 6th edition of the UN Recommendations on the Transport of Dangerous Goods was published in 2009.</td>
</tr>
<tr>
<td>dangerousGoodsShippingName</td>
<td>Text (1 - 200 Characters)</td>
<td>Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.</td>
</tr>
<tr>
<td>doesTradeItemContainPropellant</td>
<td>NonBinary Logic</td>
<td>Indicates if a trade item contains a compressed gas or propellant.</td>
</tr>
<tr>
<td>dangerousGoodsPackingGroup</td>
<td>Text (1 - 35 Characters)</td>
<td>Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.</td>
</tr>
</tbody>
</table>
Support Tool – GS1 US Attribute Explorer™

A tool for end users

• Includes attributes defined by:
  - GDD
  - Attribute value pairs (AVPs) not yet fully incorporated into GDD
  - GS1 US Industry Initiatives
  - Demand side partner requirements
  - Regulatory mandates

Technology agnostic

• Intuitive, browser-based user interface lets users:
  - See a list of defined attributes
  - Search attributes by name or description
  - Find out what attributes are defined in what standards and guidelines
  - Identify the attributes defined or required for a given product category
  - See which attributes are required by which demand side partner / government and compare
GS1 US Attribute Explorer™

- Heading lists summary of what is being displayed
- Filters restrict data to smaller sets
- List can be changed to a matrix view by Category or by Recipient
- Attributes are colored orange
- Code Values are colored blue
- Click on the listing to get more information
GS1 US Attribute Explorer™

Click for more information

- Definition
- Data Type
- Class name
- Usage information
- Category and Recipient requirements for this attribute
- List of attributes in the class
- Clicking on a Code List Value will show the other values in that code list
Next Steps

• [https://ae.prod.gs1us.org/ui/home](https://ae.prod.gs1us.org/ui/home)

• Sign up for a free account and discover the attributes available that can help your supply chains
  - Currently over 180 attributes to support Sustainability efforts

• Participate in GS1 US workgroups to identify gaps in the current standards and future opportunities

• Work with GS1 US and your solution providers to understand how you can share and receive this data with your trading partners
Contact Information

Carrie Wilkie
Vice President, Standards Management

GS1 US Corporate Headquarters
Princeton Pike Corporate Center
1009 Lenox Drive, Suite 202
Lawrenceville, NJ 08648 USA

T +1 609.620.8006
E cwilkie@gs1us.org

www.gs1us.org