

Requirements for MWS Integrators – September 2017

Template attribute name	Product / Attribute	XSD	Attribute type	Sample Value(s)	Tool tip	Short Description	Attribute metadata	Conditions for conditionally mandatory value
Are Batteries Required	AreBatteriesRequired	amzn-base.xsd	Dropdown	TRUE/FALSE	Indicates if batteries are required for product to function.	Select: true or false	Mandatory	MANDATORY IF "FulfillmentCenterID" = 'AMAZON_NA' AND "SwitchFulfillmentTo" = 'AFN'
Batteries are Included	AreBatteriesIncluded	amzn-base.xsd	Dropdown	TRUE/FALSE	Select "TRUE" if batteries are contained in the product (e.g. batteries inside a pair of Bluetooth headphones) and/or included with the product (e.g. batteries packed separately with a camera), otherwise select "no"	Select: true or false	Conditionally Mandatory	MANDATORY IF "AreBatteriesRequired" is TRUE
Battery Cell Composition	BatteryCellTypeValues	amzn-base.xsd	Dropdown	Lithium Metal	Specify the cell composition of battery in the product.	Refer to the Valid Values worksheet.	Conditionally Mandatory	MANDATORY IF "AreBatteriesIncluded" is TRUE
Battery Type	BatteryType	amzn-base.xsd	Dropdown	AA	Specify the type of battery in the product.	Refer to the Valid Values worksheet.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Number of Batteries Required	NumberOfBatteries	amzn-base.xsd	Integer	1	The number of batteries required for the product to operate	Any integer greater than or equal to zero	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Battery Weight	BatteryWeight	Product.xsd	Double	15	Provide the total net weight of the batteries included. This is the weight of the standalone batteries not including packaging or the device it may be used in.	Number up to 10 digits and 2 decimal points long.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Number of Lithium Metal Cells	NumberOfLithiumMetalCells	Product.xsd	Integer	1	Total number of Lithium cells (of type \Metal\) in the product, where the cell isn't contained in an encased battery.	A positive whole number.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Number of Lithium-ion Cells	NumberOfLithiumIonCells	Product.xsd	Integer	2	Total number of Lithium cells (of type \Ion\) in the product, where the cell isn't contained in an encased battery.	A positive whole number.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Lithium Battery Packaging	LithiumBatteryPackaging	Product.xsd	Dropdown	batteries_packed _with_equipment	"Batteries only": the battery or batteries are sold alone or with items they are not meant to power. "With equipment": the battery is included in the package but not pre-installed. "In equipment": the battery is pre-installed in the item.	Refer to the Valid Values worksheet.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Variants)
Lithium Battery Energy Content	LithiumBatteryEnergyContent	Product.xsd	Double	2	Watt hours of each battery (or cell) in unit	A positive whole number.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Ion Variants) OR OPTIONAL IF "BatteryCellComposition" (Lithium Metal Variants)

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Lithium Battery Weight	LithiumBatteryWeigh	Product.xsd	Double	1.32	This is the weight in grams of lithium contained in each \metal\ cell or battery or in the case of rechargeable batteries it is the \equivalent lithium content\ expressed in grams, in each ion cell or battery.	A positive whole number.	Conditionally Mandatory	MANDATORY IF "BatteryCellComposition" IN (Lithium Metal Variants) OR OPTIONAL IF "BatteryCellComposition" IN (Lithium Ion Variants)
Applicable Dangerous Goods Regulations	SupplierDeclaredDGHZRegulation	Product.xsd	Dropdown	Transportation Storage Waste GHS Other Unknown Not Applicable	Select the purposes for which your product is regulated as a dangerous good or hazardous material (hazmat) (e.g. dangerous good for transportation, hazmat for waste). Common products can be regulated as dangerous goods (e.g. nail polish, aerosols, cleaning products). For more information, refer to the help pages.	Refer to the Valid Values worksheet.	Mandatory	MANDATORY IF "FulfillmentCenterID" = 'AMAZON_NA' AND "SwitchFulfillmentTo" = 'AFN'
UN number	HazmatUnitedNationsRegulatoryID	Product.xsd	String	UN1993	Use this field to insert the 4 digit Identification number that corresponds to the assigned proper shipping name you indicated previously. These can also be found in the table in section 172.101 of the hazardous materials regulations.	Hazmat United Nations Regulatory ID See Valid Values	Conditionally Mandatory	MANDATORY "SupplierDeclaredDGHZRegulation" = 'transportation'
Safety Data Sheet URL	SafetyDataSheetURL	Product.xsd	String	www.safetysheet.com/hazardous_substance/msds.pdf	Holds link to the externally hosted SDS (Safety Data Sheet), also known as MSDS (Material Safety Data Sheet), for an item. This is hosted by the manufacturer or distributor, so that it will always be up-to-date and correct.	Holds link to the externally hosted SDS (Safety Data Sheet) for an item	Conditionally Mandatory	MANDATORY IF "SupplierDeclaredDGHZRegulation" = 'ghs' OR OPTIONAL IF "SupplierDeclaredDGHZRegulation" IN ('transportation','storage','waste','not_applicable','other','unknown')
Item Weight	ItemWeight	Product.xsd	Integer	500	The weight of the product.	A number with up to 10 digits to the left of the decimal point and 2 digits to the right of the decimal point. Please do not use commas.	Conditionally Mandatory	MANDATORY IF "SupplierDeclaredDGHZRegulation" IN ('transportation','storage','waste','ghs','other','unknown')

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Volume	ItemVolume	Product.xsd	Integer	1000	Indicates the volume capacity of a product.	A number with up to 10 digits to the left of the decimal point and 2 digits to the right of the decimal point. Please do not use commas.	Optional	OPTIONAL
Flash Point (°C)?	FlashPoint	Product.xsd	Integer	89	Enter the flashpoint temperature. Do not include modifier; unit is based on your response in the Temperature Units column of the template.	A number with up to 10 digits allowed to the left of the decimal point and 2 digits to the right of the decimal point. Please do not use commas.	Optional	OPTIONAL
GHS Pictograms (select all that apply)	GHSClassificationClass		Dropdown	explosive corrosive	The class and category assigned by the Global Harmonized System (GHS) CLP classification system of chemicals.	Global Harmonized System (GHS) CLP classification system.	Conditionally Mandatory	MANDATORY IF "SupplierDeclaredDGHZRegulation" = 'ghs' OR OPTIONAL IF "SupplierDeclaredDGHZRegulation" IN ('transportation','storage','waste','not_applicable','other','unknown')

Appendix A: Dropdown Values – These are the values that should be made available for each attribute type that should be a dropdown.

BatteryType	BatteryCellComposition	LithiumBatteryPackaging	SupplierDeclaredDGHZRegulation	GHS Pictogram (select all that apply)
9V	alkaline	batteries_contained_in_equipment	Storage	compressed_gas
12V	aluminum_oxygen	batteries_only	waste	corrosive
A	lead_acid	batteries_packed_with_equipment	transportation	environmentally_damaging
AA	lead_acid_agm		ghs	explosive
AAA	lead_calcium		other	flammable
AAAA	lithium		not_applicable	health_hazard
C	lithium_air		unknown	irritant
CR123a	lithium_cobalt			oxidizing
CR2	lithium_ion			toxic
CR5	lithium_manganese_dioxide			amzn_specific_no_label_with_warning
D	lithium_metal			
lithium_ion	lithium_nickel_cobalt_aluminum			
lithium_metal	lithium_nickel_manganese_cobalt			
lithium_polymer	lithium_phosphate			

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BatteryType	BatteryCellComposition	LithiumBatteryPackaging	SupplierDeclaredDGHZRegulation	GHS Pictogram (select all that apply)
LR44	lithium_polymer			
nonstandard_battery	lithium_thionyl_chloride			
P76	lithium_titanate			
product_specific	manganese			
unknown	mercury_oxide			
	NiCAD			
	nickel_iron			
	nickel_oxyhydroxide			
	nickel_zinc			
	NiMh			
	polymer			
	sealed_lead_acid			
	silver_calcium			
	silver_oxide			
	silver_zinc			
	zinc			
	zinc_air			
	zinc_carbon			
	zinc_chloride			
	unknown			

Appendix B: Composition Variants – These lists provide **BatteryCellComposition** variants to be used in conditionally mandatory logic as referenced by workflow and attribute tabs.

All Values	Lithium Variants	Lithium-Ion Variants	Lithium Metal Variants	Non-Lithium Variants
alkaline	Lithium	lithium	lithium	Alkaline
aluminum_oxygen	lithium_air	lithium_air	lithium_manganese_dioxide	Aluminum Oxygen
lead_acid	lithium_cobalt	lithium_cobalt	lithium_metal	Lead Acid
lead_acid_agm	lithium_ion	lithium_ion	lithium_thionyl_chloride	Lead Acid AGM
lead_calcium	lithium_manganese_dioxide	lithium_nickel_cobalt_aluminum		Lead Calcium
lithium	lithium_metal	lithium_nickel_manganese_cobalt		Manganese
lithium_air	lithium_nickel_cobalt_aluminum	lithium_phosphate		Mercury Oxide
lithium_cobalt	lithium_nickel_manganese_cobalt	lithium_polymer		NiCAD
lithium_ion	lithium_phosphate	lithium_titanate		Nickel Iron
lithium_manganese_dioxide	lithium_polymer	polymer		Nickel Oxyhydroxide
lithium_metal	lithium_thionyl_chloride			Nickel Zinc
lithium_nickel_cobalt_aluminum	lithium_titanate			NiMh
lithium_nickel_manganese_cobalt	polymer			Sealed Lead Acid

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All Values	Lithium Variants	Lithium-Ion Variants	Lithium Metal Variants	Non-Lithium Variants
lithium_phosphate				Silver Calcium
lithium_polymer				Silver Oxide
lithium_thionyl_chloride				Silver Zinc
lithium_titanate				Zinc
manganese				Zinc Air
mercury_oxide				Zinc Carbon
NiCAD				Zinc Chloride
nickel_iron				
nickel_oxyhydroxide				
nickel_zinc				
NiMh				
polymer				
sealed_lead_acid				
silver_calcium				
silver_oxide				
silver_zinc				
zinc				
zinc_air				
zinc_carbon				
zinc_chloride				