

# Circular Economy Ontology Network (CEON) - Product Module

## Metadata

### IRI

<http://w3id.org/CEON/ontology/product/>

### Title

Circular Economy Ontology Network  
(CEON) - Product Module

### Creator

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### Contributor

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### Date Created

2023-03-16

### License

<https://github.com/LiUSemWeb/CEON/blob/master/LICENSE>

### Version Iri

<http://w3id.org/CEON/ontology/product/0.1/>

### Version Info

0.1

### Preferred Namespace Prefix

product

### Preferred Namespace Uri

<http://w3id.org/CEON/ontology/product/>

### Description

The Product module of CEON (Circular Economy Ontology Network).

### Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDe D3.1: CVN-Resource-2, CVN-ResourceType-4, C11-2, C12-1, C13-3, E2-1, T8-3.

## Classes

### Product<sup>c</sup>

#### IRI

<http://w3id.org/CEON/ontology/product/Product>

#### Description

A product is a physical object put into a market for sale. The product can be a thing that grows naturally or produced through some chemical or manufacturing processes.

#### Sub Class Of

[resourceODP:PhysicalObject<sup>c</sup>](#)  
[hasProductComponent<sup>op</sup>](#) some [ProductComponent<sup>c</sup>](#) *and* [hasProductComponent<sup>op</sup>](#) only [ProductComponent<sup>c</sup>](#)

#### In Domain Of

[hasProductComponent<sup>op</sup>](#)

## ProductComponent<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/product/ProductComponent>

**Description** A product component is a part of a product.

**Sub Class Of** [resourceODP:Constituent<sup>c</sup>](#)

**In Range Of** [hasProductComponent<sup>op</sup>](#)

## Constituent<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/resourceODP/Constituent>

**Super Class Of** [ProductComponent<sup>c</sup>](#)

## Matter<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/resourceODP/Matter>

## Physical Object<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/resourceODP/PhysicalObject>

**Super Class Of** [Product<sup>c</sup>](#)

## Resource<sup>c</sup>

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<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource</a>
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## Object Properties

### hasProductComponent<sup>op</sup>

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<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/product/hasProductComponent">http://w3id.org/CEON/ontology/product/hasProductComponent</a>
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<b><u>Description</u></b>	hasProductComponent intends to represent that a product can have a collection of components.
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<b><u>Domain</u></b>	<a href="#">Product<sup>c</sup></a>
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<b><u>Range</u></b>	<a href="#">ProductComponent<sup>c</sup></a>
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## Annotation Properties

contributor<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/contributor>

created<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/created>

creator<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/creator>

description<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/description>

license<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/license>

title<sup>ap</sup>

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**IRI** <http://purl.org/dc/terms/title>

preferred namespace prefix <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>
covers requirements <sup>ap</sup>	
IRI	<a href="http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements</a>

## Namespaces

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<http://w3id.org/CE0N/ontology/product/>

**dc**terms

<http://purl.org/dc/terms/>

**odp**

<http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>

**owl**

<http://www.w3.org/2002/07/owl#>

**prov**

<http://www.w3.org/ns/prov#>

**rdf**

<http://www.w3.org/1999/02/22-rdf-syntax-ns#>

**rdfs**

<http://www.w3.org/2000/01/rdf-schema#>

**resourceODP**

<http://w3id.org/CE0N/ontology/resourceODP/>

**vann**

<http://purl.org/vocab/vann/>

## Legend

c	Classes
op	Object Properties
ap	Annotation Properties