

# 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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Mikael Lindecrantz

Robin Keskisärkkä

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

### In Domain Of

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

## ProductComponent<sup>c</sup>

**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>

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

### Super Class Of

[ProductComponent<sup>c</sup>](#)

## Matter<sup>c</sup>

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

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

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

### Super Class Of

[Product<sup>c</sup>](#)

## Resource<sup>c</sup>

IRI	<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>

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

### contributor<sup>ap</sup>

IRI	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
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### created<sup>ap</sup>

IRI	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
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### creator<sup>ap</sup>

IRI	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>
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### description<sup>ap</sup>

IRI	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
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### license<sup>ap</sup>

IRI	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
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title <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
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/CEON/ontology/product/>

**dcterms**

<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/CEON/ontology/resourceODP/>

**vann**

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

## Legend

c

Classes

op

Object Properties

