



CLUSTER 3x400g

Environmental **Product Declaration**

An EPD should provide current information, and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com. This EPD is compliant with ISO 14025.

> Programme: The International EPD® System, www.environdec.com Programme operator: EPD International AB











15-07-2014 **REVISION DATE** 09-01-2024 VALID UNTIL: 22-12-2028



SCOPE Europe

CPC CODE

2139 - Other prepared

and preserved vegetables,

pulses and potatoes

GEOGRAPHICAL

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N° REG. S-P-00579





1. THE ENVIRONMENTAL PRODUCT DECLARATION

WHAT IS EPD (ENVIRONMENTAL PRODUCT DECLARATION)



The EPD (Environmental Product Declaration) is a document verified and registered that communicates transparent and comparable information about the environmental performance of a product evaluated

along its life cycle.

The Environmental Product Declarations take advantage of new market opportunities to inform consumers and stakeholders about the environmental performance of products and services. The peculiarities of the EPD translate into a series of advantages both for organizations that process declarations and for those who use the information contained in them.

The International EPD[®] System is the program for environmental declarations based on the ISO Standard 14025.

More information on www.environdec.com

WHAT ARE ITS CHARACTERISTICS

- **OBJECTIVE.** Environmental performance is calculated using the life cycle analysis methodology (Life Cycle Assessement, LCA), following the ISO 14040 series.
- **CREDIBLE.** The EPD is verified by a third-party body.
- **COMPARABLE.** EPDs belonging to the same product category are comparable since they are developed according to the same rules and requirements (PCR, Product Category Rules).

THE CERTIFICATION OF THE EPD PROCESS OF CONSERVE ITALIA



Conserve Italia has decided to certify the own internal elaboration process of the Environmental Declarations using a reliable and consolidated model of collection,

management and processing of data necessary for the realization of the LCA studies of the products subject to certification.

The Control System implemented by Conserve Italia has been verified by a third-party body, in order to certify that all the Environmental Declarations are performed in accordance with the requirements of the International EPD[®] System. Conserve Italia, having obtained a certification of the process EPD, can independently draw up the Environmental Product Declarations of its products.

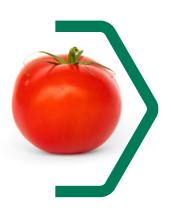


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2. CHOPPED TOMATOES STEAMED COOKED

Valfrutta chopped tomatoes steamed cooked is obtained only from selected tomatoes, using only tomatoes come from certified integrated production, harvested and processed on the same day.



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NUTRITIONAL VALUES Average values per 100g of product							
Energy	102 kJ –24kcal						
Protein	1,1 g						
Carbohydrates	3,3 g						
of which sugar	3,0 g						
Fat	0,1 g						
of which saturated	0,0 g						
Fibre	2,2 g						
Salt	0,5 g						



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CONTENT DECLARATION	Tomatoes (kg)	Salt (kg)	Citric Acid (kg)	Water (kg)	Primary Packaging (kg)	Secondary Packaging (kg)	Tertiary Packaging (kg)
REFERRED TO 1 CAN	0,615	0,001	0,0002	-	0,051	0,010	0,012
REFERRED TO 1 KG	1,538	0,002	0,0005	-	0,128	0,025	0,030

PACKAGING	Container size	Sell unit	Cluster	Pack format
Open top tinplated steel can and lid	400g	8	3	2X4X3

3. THE CHOPPED TOMATOES

Concerning chopped tomatoes production process, after the manual or automatic grading phase, the tomatoes are steam blanched and passed through peeling machines. The next stage sees the tomatoes cut into small cubes by an electronic cutter which automatically cuts the tomatoes to the correct size and rejects those parts which are not suitable - any eventual impurities and residual parts which are not perfectly mature are discarded. Lightly concentrated tomato juice and salt are added to the chopped tomatoes which are then ready to be sent to the filling machine. Tins are sterilized, filled and pasteurized guaranteeing the stability of the product and consequently can be consumed.









4. THE PRODUCT

Italy is the World's second biggest producer of tomatoes after the United States and the biggest exporting country of tomato based products.

Conserve Italia's plants, located in northern, central and southern Italy, process approximately **350,000 tonnes of tomatoes** a year, obtaining the following products:

CONCENTRATED TOMATOES

product obtained starting from tomato juice thermally processed and concentrated to reach different levels of concentration to obtain single, double or triple concentrate

> SIEVED TOMATOES

fresh tomatoes, sieved and slightly cooked to reduce the water content

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PEELED TOMATOES

preserved tomatoes produced using plum shaped tomatoes in semi-concentrated juice with added salt

CHOPPED TOMATOES

preserved tomatoes produced using fresh round variety tomatoes – peeled and chopped into pieces

SAUCES

sauces are finely chopped tomato pulp with added ingredients, such as olive oil, herbs and spices, vegetables, meat, etc, in order to prepare ready dressings for pasta

Chopped Tomatoes Steamed Cooked



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5. THE GROUP

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Conserve Italia's legal personality is that of an agricultural co-operative and is the mother company to other subsidiary companies in Italy and in Europe.



6. THE MISSION



Conserve Italia represents the leader industry in the Italian field and it is ranked among the leader European companies (Source: Iri Audit incl. discount A.T. June 2013). The mission statement of Conserve Italia is "to be a leader company in Europe in the sector of preserved foods to achieve the highest value on fruit and vegetables supplied by associated farmers and give to consumers, thanks to food chain control and own brands reliability, guarantees on quality and food safety".

> The Group processes approximately

650.000

tonnes of raw materials every year; fruit, vegetables and tomatoes, grown over a surface area of over

20.000

hectares, which are processed in 12 production plants; 8 in Italy, 3 in France and 1 in Spain.



Conserve Italia Group's brand policy has always constituted one of the strategic guidelines and today the branded sales (Valfrutta, Yoga, Derby Blue, Cirio, Juver, St Mamet, Jolly Colombani) represent about 69% of the total turnover; the remaining business being made up of sales for modern retail commercial brands and products

for industry. Conserve Italia has developed a consolidated relationship with all the major retail chains; representing approximately 65% of its turnover. The Ho.Re.Ca. channel (Hotel, Restaurants and Cafés) is also an important channel, especially for beverages as well as for the Foodservice and Vending lines.











7. THE BRAND VALFRUTTA

ABOUT US

The brand Valfrutta in particular involves over



that, in their plots of land in the Italian territory, cultivate their fruit and vegetable products in open field through integrated production systems.



in order to preserve the natural freshness of the harvest, originating from plants where production lines use only **100% electrical energy from renewable sources**.

THE PLANTS

Conserve Italia directly manages seven plants in Italy, in Emilia-Romagna, in Tuscany and in Apulia. The plant at Pomposa in Ferrara, which was built between 2002-2004 has an overall surface area of 440,000 sq.m., of which approximately 120,000 covered, and a production capacity for the processing of over 350,000 tonnes of raw materials including tomatoes, vegetables and fruit. The plant is specialized in processing of sieved, chopped and concentrated tomatoes, fruit in syrup and vegetables in cans and glass jars.

The plants of **Barbiano di Cotignola and Massa Lombarda (RA)** are for processing fruit juices, nectars and fruit based drinks.

The Alseno (PC) plant is specialized in vegetables and sweet corn processing. The plants in Ravarino (MO), Albinia (GR) - EMAS - registered site (Reg.n. IT - 000826) - and Mesagne (BR) are dedicated to the production of tomato based products (sieved, chopped, concentrates and sauces).

Chopped tomatoes steamed cooked – Can 400g, object of the study, is produced in the plants at Pomposa (FE) and Albinia (GR).







8. ENVIRONMENTAL PERFORMANCE DECLARATION

The declared unit is 1 kg of packaged product.

Specific data were collected on the plant for the year 2021. Agricultural data were referred to the three-year average 2019-2021.

SYSTEM BOUNDARIES



METHODOLOGY



The methodology used in order to evaluate the environmental performance of the product is the Life Cycle Assessment (LCA), according to the ISO 14040-14044 standards. The goal of the LCA study is to evaluate the potential environmental impact associated to the production of Chopped tomatoes steamed cooked – can 400g.

The Water Footprint Profile is calculated in accordance to ISO 14046 standard, through a Water Footprint Assessment integrated in the LCA study.



Air and water emissions caused by the use of nitrogen- and phosphorous-based fertilizers utilized by the system plant and for the cultivating operations have been calculated in accordance to § 4.7.2 of PCR 2019:10 Prepared and preserved vegetable and fruit products, including juice v. 2.0

For the modelling of the electricity utilized within the processes, the specific mix of the supplier for the year of reference has been used: energy 100% from renewable sources. All life cycle phases were analysed and accounted for in the study.

This EPD and further information about it are available on the website of the International EPD® System: www.environdec.com

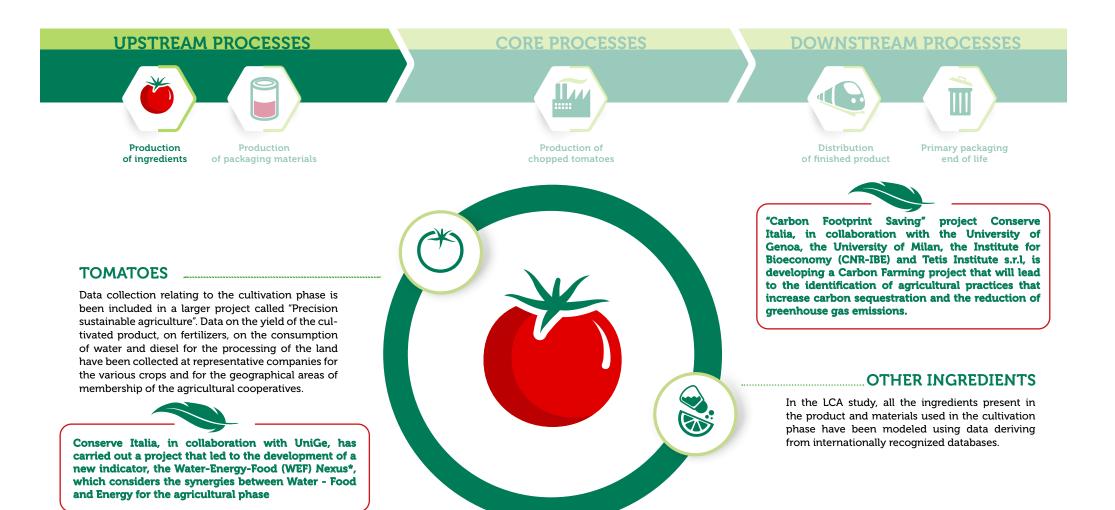








9. PRODUCTION OF INGREDIENTS



*This indicator is not included in the EPD, it is available on request together with the calculation method used.

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10. PRODUCTION OF PACKAGING



PRIMARY PACKAGING

The primary packaging of the products, otherwise the packaging conceived to establish a sales unit at the point of sale for the end user or the consumer, is essentially made up from tinplate, glass, polylaminated or plastic. In the LCA study, the packaging materials were modeled using data from internationally recognized databases.

Conscious of the contribution of the food industry to production of packaging, Conserve Italia is constantly committed to minimize the weight and volume of packaging, by the limits necessary to guarantee the levels of safety, guality and acceptability of the product by the consumer.

Useful link

EPD

http://www.ilfattoalimentare.it/sostenibilit.html



ductions of the weights of primary packaging to reduce its impact environmental with a view to continuous improvement



TERTIARY PACKAGING

Tertiary packaging, otherwise the packaging conceived in order to facilitate manipulation and transport of the finished product, is chosen by Conserve Italy with sustainability criteria, such as durability, lightness and use of environmentally friendly materials. In particular, the pallets used by Conserve Italia are all multi-use and reusable packaging. Once the reuse is over, these pallets are 100% recyclable.





11. PRODUCTION OF CHOPPED TOMATOES



PLANTS

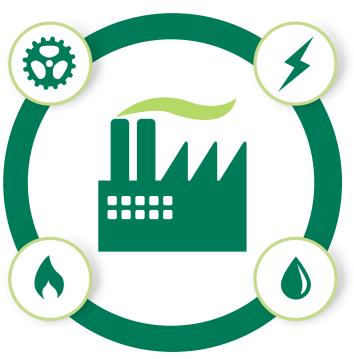
The production of the products of the Conserve Italia plants includes the following life cycle stages:

- **1.** Preparation of the finished product (e.g. washing, mixing, heat treatments, ...) from fresh or semi-finished product.
- 2. Packaging process.
- 3. Refrigerated storage (where applicable).
- 4. Water purification.

Management data related to the reference year are collected annually at the plants involved and subsequently reported to the processing of the product. Below, the main data collected on the plants involved in the production of products are reported.

GREENHOUSE GASES

Conserve Italia plants fall within the scope of application of the "Emissions Trading" Directive (Directive 2003/87/EC), that is they are subject to the monitoring and communication of the greenhouse gas emissions. The data on CO2 emissions are annually calculated and verified by a body accredited by the Competent National Authority.



ELECTRICITY

The electrical consumption of the plants is one of the significant environmental aspects on which Conserve Italia has decided to act with energy efficiency measures and choosing suppliers that favour certain sources from renewable sources. In particular, all Valfrutta products on the market - fruit preserves (juices and nectars, fruit in syrup and jams), tomato preserves (pureed, pulp, peeled) and vegetable preserves (corn and legumes) - come from plants that for these processing lines use only certified electricity from renewable sources.

WATER

In the Conserve Italia plants, the water resource is considered a primary resource to be protected and preserved. For this reason in all the plants actions and processes for the recovery of water and its purification are implemented. The percentage of water recovered in the production cycle guarantees on average a recovery rate> 33%, including the water resource which is used for the transport of fresh raw material up to the washing and cooking phase.

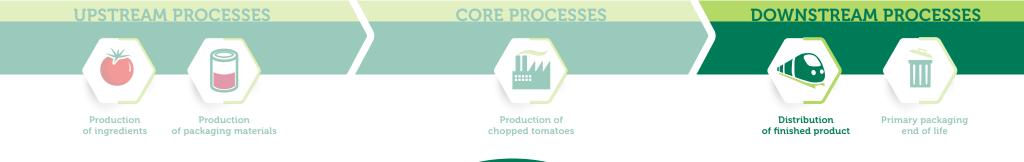








12. DISTRIBUTION



Conserve Italia has created a network of logistic centres dedicated to storage and shipment of finished products, able to ensure quick and cost-saving transfers for the products up to the Distribution Centers of the modern distribution chains or to the distributors of the traditional channels operating in retail and in the Ho.re.ca.. The most important storage and shipping warehouses are highly automated and are placed near the processing plants or in strategic areas for sorting goods at European level.

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In addition to traditional road transport, multimodal transport has been developed, with the preparation of 5 special weekly trains, for transport on the lines north-south, which today covers about 20% of shipments, outdoing the national average for rail transport.







13. DISPOSAL AND PACKAGING



Conserve Italia uses as primary packaging for its products essentially tinplate, glass, polylaminated or plastic. All packaging used for Conserve Italia product, using materials that fall into the categories treated by CONAI (National Packaging Consortium), are 100% recyclable. CONAI in fact directs the activity and guarantees the results recovery of 6 Consortia of materials: steel (Ricrea), aluminum (Cial), paper/cardboard (Comieco), wood (Rilegno), plastic (Corepla), glass (Coreve).

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According to the final data for 2021 published in the General Program for the prevention and management of packaging and packaging waste, the figure relating to packaging sent for recycling amounts to 72% of the amount released for consumption, for a total of 389.828 tons (Source RICREA)







14. RESOURCES USE

	PARAMETERS Data refer to 1 kg of product			UPST	REAM	CORE	DOWNSTREAM		
			UNIT	Agriculture ¹	Packaging		Distribution	End of life ²	TOTAL
	Primary	Use as energy carrier	MJ. net calorific value	3,06·10 ⁻²	1,55	4,35·10 ⁻¹	2,28·10 ⁻²	3,90 ⋅10 ⁻⁶	2,04
	energy resources	Used as raw materials	MJ. net calorific value	2,12 ·10 ⁻²	4,27·10 ⁻¹	4,56·10 ⁻³	3,99·10 -3	2,74 ·10⁻⁵	4,57·10 ⁻¹
-	Renewable	TOTAL	MJ. net calorific value	5,18·10 -2	1,98	4,40.10.1	2,68·10 ⁻²	3,13·10 -⁵	2,50
	Primary energy resources	Use as energy carrier	MJ. net calorific value	9,47·10 ⁻¹	9,05	4,56	9,54·10 ⁻¹	1,21·10 -3	1,55·10 ¹
		Used as raw materials	MJ. net calorific value	4,45·10 ⁻⁴	1,08·10 ⁻¹	2,01·10 ⁻⁶	1,10·10 ⁻⁶	1,39·10 ⁻⁸	1,09·10 ⁻¹
	Non renewable	TOTAL	MJ. net calorific value	9,48·10 ⁻¹	9,16	4,56	9,54·10 ⁻¹	1,21·10 -3	1,56·10 ¹
	Secondary material ³		kg	0	1,02.10-1	0	0	0	1,02.10-1
	Renewable sec	condary fuels	MJ	0	0	0	0	0	0
I	Non-renewable secondary fuels		MJ	0	0	0	0	0	0
	Net use of fr	resh water	m ³	5,86·10 -2	8,12·10 ⁻³	1,38·10 ⁻³	1,29 ·10 ⁻⁴	3,26 ·10 ⁻⁸	6,82·10 ⁻²

¹ All phases relating to the Upstream are included, with the exception of the production of packaging (production of seeds, plants and agricultural inputs, cultivation phase and production of ingredients).

² Primary packaging end of life.

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³ Data refer to the use of recycled cardboard in secondary and tertiary packaging and to the use of 58% recycled tinplate.

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15. ENVIRONMENTAL IMPACTS

PARAMETERS		UNIT		REAM	CORE	DOWNS	TOTAL			
Data refer	Data refer to 1 kg of product		Agriculture ¹ Packa			Distribution	End of life ²			
	Fossil	kg CO ₂ eq	7,06·10 ⁻²	7,22 ·10 ⁻¹	2,78·10 ⁻¹	5,95·10 ⁻²	8,21·10 ⁻⁵	1,13		
Global warming	Biogenic	kg CO ₂ eq	8,35·10 -5	2,13·10 ⁻³	1,92·10 ⁻⁴	4,81·10 ⁻⁵	6,12·10 ⁻⁸	2,46·10 ⁻³		
potential (GWP)	Land use and land	kg CO ₂ eq	1,13·10 ⁻⁴	7,13·10 ⁻⁴	2,10·10 ⁻⁵	1,67·10 ⁻⁵	3,89·10 ⁻⁹	8,64-10-4		
	TOTAL	kg CO ₂ eq	7,07·10 ⁻²	7,25·10 ⁻¹	2,78·10 ⁻¹	5,95·10 ⁻²	8,22·10 ⁻⁵	1,13		
Ozone depletion potential (ODP)		kg CFC11 eq	2,82·10 ⁻⁸	3,56·10⁻ ⁸	3,34·10⁻ ⁸	1,29·10 ⁻⁸	1,84.10-11	1,10·10 ⁻⁷		
Acidificat	Acidification potential (AP)		5,69·10 ⁻⁴	3,87·10 ⁻³	4,50·10 ⁻⁴	2,90·10 ⁻⁴	8,69·10 ⁻⁷	5,18·10 ⁻³		
	Eutrophication potential (EP), Aquatic freshwater		8,08·10 ⁻⁵	3,01·10 ⁻⁵	6,68·10 ⁻⁶	7,76·10 ⁻⁷	7,49·10 ⁻¹¹	1,18·10 -4		
	tion potential (EP), latic marine	kg N eq	7,23·10 ⁻⁴	6,26·10 ⁻⁴	2,34·10 ⁻⁴	1,00·10 ⁻⁴	3,88·10 ⁻⁷	1,68·10 -3		
	Eutrophication potential (EP), Terrestrial		2,81·10 ⁻³	7,18·10 ⁻³	1,25·10 ⁻³	1,10·10 ⁻³	4,26·10 ⁻⁶	1,23·10 ⁻²		
	Photochemical oxone creation potential (POCP)				4,81·10 ⁻⁴	2,42·10 ⁻³	4,16·10 ⁻⁴	2,87·10 ⁻⁴	1,17·10 ⁻⁶	3,61·10 ⁻³
Abiotic depletion potential (fossil fuels)		MJ	8,84·10 ⁻¹	8,60	4,14	9,00·10 ⁻¹	1,14·10 ⁻³	1,45·10 ¹		
	Abiotic depletion potential (Metals and minerals)		4,03·10 ⁻⁸	2,18·10 ⁻⁵	2,27·10 ⁻⁹	2,68·10 ⁻⁹	4,20.10-12	2,19·10 -5		
Water depriva	ution potential (WDP) ⁴	m ³ word eq depriv.	2,63	3,15·10 ⁻¹	6,79·10 ⁻³	1,64·10 ⁻³	5,36·10 ⁻⁷	3,01		

¹All phases relating to the Upstream are included, with the exception of the production of packaging (production of seeds, plants and agricultural inputs, cultivation phase and production of ingredients). ² Primary packaging end of life.

⁴ The results of this environmental impact indicator shall be used with care as the uncertainties of the results are high and as there is limited experience with the indicator.

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16. WASTE PRODUCTION AND OTHER INDICATORS

PARAMETERS Data refer to 1 kg of product	UNIT	UPSTREAM Agriculture ¹ Packaging Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" <th>CORE</th> <th colspan="2">DOWNSTREAMDistributionEnd of life2Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2"Image: Colspan="</th> <th>TOTAL</th>		CORE	DOWNSTREAMDistributionEnd of life2Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2"Image: Colspan="		TOTAL
Hazardous waste disposed	kg	9,02·10 -5	1,11·10 ⁻³	1,22·10 ⁻⁴	2,99 ⋅10 ⁻⁵	2,57·10 ⁻⁸	1,13·10 -3
Non-hazardous waste disposed	kg	3,12·10 ⁻³	6,25·10 ⁻¹	5,79·10 ⁻⁴	2,41·10 ⁻⁴	3,44 ·10 ⁻³	6,64·10 ⁻¹
Radioactive waste disposed	kg	3,64·10 ⁻⁶	2,31·10 ⁻⁵	5,08·10 ⁻⁶	6,47·10 ⁻⁶	8,15·10 ⁻⁹	3,83·10 -⁵

		UPST	UPSTREAM		CORE DOWNST		
PARAMETERS Data refer to 1 kg of product	UNIT	Agriculture ¹	Packaging		Distribution	End of life ²	TOTAL
Components for reuse⁵	kg	0	0	1,86·10 ⁻²	0	0	1,86·10 ⁻²
Material for recycling	kg	0	0	0	0	8,85·10 ⁻²	8,85·10 ⁻²
Materials for energy recovery⁵	kg	0	0	1,19·10 ⁻²	0	0	1,19·10 ⁻²
Exported energy, electricity	MJ	0	0	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0	0	0

¹ All phases relating to the Upstream are included, with the exception of the production of packaging (production of seeds, plants and agricultural inputs, cultivation phase and production of ingredients).

² Primary packaging end of life.

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⁵ Data refers to by-products used as soil improver and sent to biodigester.

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110			UPSTREAM		CORE	DOWNS		
	OTHER INDICATORS	UNIT	Agriculture ¹	Packaging		Distribution	End of life ²	TOTAL
	Land use (occupation)	m2a	7,12	0	0	0	0	7,12
_	Ecological footprint	m2a	1,55·10 ⁻¹	2,03	6,49·10 ⁻¹	1,70·10 ⁻¹	2,65·10 ⁻⁴	3,00
_		· · · ·						
	WATER FOOTPRINT		UPST Agriculture ¹	REAM Packaging	CORE	Distribution	STREAM End of life ²	TOTAL
•	PROFILE	UNIT	Č				D	TOTAL
	Human toxicity	kg 1,4-DB eq	1,42·10 ⁻²	1,20·10 ¹	2,51·10 ⁻²	1,52·10 ⁻²	4,75·10 ⁻⁶	1,20·10 ¹
_	Fresh water aquatic ecotoxicity	kg 1,4-DB eq	1,58·10 ⁻³	1,27·10 ⁻²	3,82·10 ⁻³	5,56·10 ⁻⁴	3,35·10 ⁻⁷	1,86·10 ⁻²
_	Marine aquatic ecotoxicity	kg 1,4-DB eq	1,32·10 ¹	3,60·10 ²	1,89·10 ¹	6,62	2,28·10 ⁻³	3,98·10 ²
_	Terrestrial ecotoxicity	kg 1,4-DB eq	3,08·10 ⁻⁴	1,15·10 ⁻²	9,32·10 ⁻⁵	4,73·10 -5	1,49.10-8	1,19·10 ⁻³
_	Acidification potential (AP)	kg SO ₂ eq	5,15·10 ⁻⁴	3,22·10 ⁻³	3,57·10 ⁻⁴	2,19·10 ⁻⁴	6,18·10 ⁻⁷	4,31·10 -3
_	Eutrophication potential (EP)	kg PO ₄ ³⁻ eq	5,88·10 ⁻⁴	3,30·10 ⁻⁴	1,20.10-4	4,01·10 ⁻⁵	1,37.10-7	1,08·10 -3
_	Net use of fresh water	m ³	5,86·10 ⁻²	8,12·10 ⁻³	1,38·10 ⁻³	1,29.10-4	3,26·10 ⁻⁸	6,82·10 ⁻²
_	Water deprivation potential (WDP)	m ³ world eq. deprived	2,63	3,15.10-1	6,79·10 ⁻²	1,64.10-3	5,36·10 ⁻⁷	3,01

¹ All phases relating to the Upstream are included, with the exception of the production of packaging (production of seeds, plants and agricultural inputs, cultivation phase and production of ingredients).

Cluster

² Primary packaging end of life.







Chopped		UPSTREAM		CORE	DOWNSTREAM		
tomatoes		Agriculture ¹	Packaging		Distribution	End of life ²	
steamed cooked	UNIT	ð				Î	TOTAL
ECOLOGICAL FOOTPRINT	m2a	0,155	2,030	0,649	0,170	<0,001	3,004
CARBON FOOTPRINT	kg CO ₂ eq	0,071	0,725	0,278	0,060	<0,001	1,133
WATER FOOTPRINT ⁶	m ³	0,059	0,008	0,001	<0,001	<0,001	0,068

¹ All phases relating to the Upstream are included, with the exception of the production of packaging (production of seeds, plants and agricultural inputs, cultivation phase and production of ingredients).

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² Primary packaging end of life.

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⁶ Water footprint profile – Net use of fresh water





17. DIFFERENCES VERSUS PREVIOUS VERSION OF THE EPD

This EPD declaration differs from the previous version mainly due to: adaptation to the new version of PCR 2019:10 (v. 2.0) and GPI 4.0, reference year of the specific data used, and subdivision of the results related to the upstream (agriculture and packaging) and downstream (distribution and end-of-life) phases.









RECYCLING OF PRIMARY PACKAGING

18. INFORMATION

The primary packaging is a 100% recyclable material and it has to be directed to the waste separation procedures according to the rules of the pertaining municipalities.

ETHICAL CODE

Conserve Italia, within its activities, adopt the Ethical Code that outlines the basic principles of behavior of the company: pillars that lie on solid foundation of respect of law, honesty, transparency of information, quality and safety of products, responsibility towards community and environment.

PRODUCT CERTIFICATIONS

The product object of the study is in compliance with BRC (British Retail Consortium) and IFS (International Food Standard) standards for safety, legality and quality of products.

Certified and guaranteed by CESI (Centro Elettrotecnico Sperimentale Italiano) for renewable origin, the energy used by Valfrutta processing is **100% renewable energy** as stated by the label present in the packaging of all the products.



EPD





19. CERTIFICATION BODY

EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden, E-mail: info@environdec.com

EPDs within the same product category but from different programmes may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison.

Conserve Italia has the sole ownership, liability and responsibility of this EPD.

Product category rules (PCR): Prepared and preserved vegetable and fruit products, including Juice; 2019:10 version 2.0; UN CPC 213, 214

PCR review was conducted by: The Technical Committee of the International EPD® System.

Chair: Adriana Del Borghi Contact via info@environdec.com.

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

X EPD process certification

O EPD verification O Pre-verified tool

Third party verifier: DNV GL Business Assurance Signature of the third-party verifier

Accredited by: ACCREDIA

ACCREDIA Accreditation n.: 008H

The procedure for follow-up during EPD validity, as defined in the GPI, involves third-party verifier:



20. REFERENCES

General Programme instructions for the International EPD[®] System, v.4 PCR 2019:10 v.2.0 UN CPC 213, 214 Prepared and preserved vegetable and fruit products, including juice

ISO 14046:2016 Environmental management – Water Footprint – Principles, requirements and guidelines.

Database Ecoinvent v.3.8 (www.ecoinvent.org)

Life Cycle Analysis "EPD PROCESS LIFE CYCLE ASSESSMENT CONSERVE ITALIA PRODUCTS", Tetis Institute Srl, 2023, Rev.20

COREVE 2021. Glass recycling data 2021

RICREA 2021

<u>COMIECO 2021 (National Consortium for Recovery and Recycling of Cellulose</u> <u>- Based Packaging) "27th Annual Comieco Report on the separate collection of</u> <u>paper and cardboard in Italy"</u>

COREPLA 2021

IRI - Information Resources Srl. Iri Audit incluso discount A.T. june 2013

WATER PROCESS Technical Report "Creation of a model for quantifying the impact on the water sector determined by the cultivation of plant products", Project Measure 16.2, CENS - University of Genoa, 2021, Vers. 1

Website EPD® International System were used (https://www.environdec.com/ resources/indicators); for the Consumption of energy resources the Cumulative Energy Demand (CED) method; for the categories relating to toxicity and ecotoxicity present in the Water Footprint Profile the CML-IA baseline method and for the Ecological Footprint the Ecological footprint method.









21. GLOSSARY

ACIDIFICATION POTENTIAL (AP)

drop in pH of soils, lakes, forests, due to air emissions of acidifying compounds, with harmful effects on living organisms, e.g. "acid rains".

ECOLOGICAL FOOTPRINT

the Ecological Footprint is a complex indicator that measures the biologically productive area of the sea and of land necessary to regenerate the resources consumed

by a human population and to absorb the waste produced from the consumption of fossil and nuclear fuels. It is expressed in soil use over time (m2a)

GLOBAL WARMING POTENTIAL (GWP100)

years, due to emissions and absorptions attributable to humans. such as carbon dioxide (CO_2) . methane (CH_4), nitrous oxide (N_2O), etc.

EUTROPHICATION POTENTIAL (EP)

reduction in dissolved oxygen levels in water media with collapse of fish and other aquatic species due to excess addition of large guantities of mineral nutrients such as nitrogen and phosphorous and subsequent dramatic increase in flora that feed on these nutrients.

PHOTOCHEMICAL OZONE CREATION **POTENTIAL (POCP)**

formation of ozone at ground level due to air emissions of unburnt hydrocarbons and nitrogen oxides in presence of solar radiation. This phenomenon is harmful for living organisms and often present in large urban centres.

LAND USE

land use represents an impact on biodiversity. Biodiversity depends on the type of use of soil and dimensions of area. In this impact category both regional and local impacts are taken into consideration and the damage related to land use results from both conversion and occupation of soil. This damage is consequently expressed in m2a: "Land occupation recorded as. m2 times year per unit output".

LIFE CYCLE ASSESSMENT (LCA)

it is a technique - regulated by ISO 14040 standard - to quantify the energetic and environmental load of the life cycle of a product system, through the guantification of energy and material input and air, liquid, solid emissions released into the environment, from raw material extraction to disposal of final waste.

TOXICITY

the toxicity can be expressed as human toxicity, fresh water aquatic ABIOTIC DEPLETION POTENTIAL toxicity, marine aguatic toxicity, terrestrial toxicity. The ETP (Eco-Toxicity Potential) is expressed with reference to a compound, i.e. 1,4-diclorobenzene (1,4 DCB). Therefore the unit is kg 1,4-DB eg.

FUNCTIONAL UNIT

it is a measure of the function of the studied system and it provides a reference to all the results presented in the EPD. This enables comparison of data presented in two or more EPD related to products within the same category, i.e. pertaining to the same PCR.

WATER FOOTPRINT (WF)

it is an indicator to guantify the potential impact related to water, calculated - in accordance to ISO 14046 standard - through a water footprint assessment based on a LCA study. The results of the water footprint assessment are represented by an impact indicators profile (water footprint profile).

WATER DEPRIVATION POTENTIAL (WDP)

Indicator that represents the equivalent volume of water consumed proportionate to the water availability of the individual countries.

WATER ENERGY FOOD (WEF) NEXUS

Dimensionless single score indicator that takes into account the Global Warming Potential (in kg CO₂ eg.), The Water Scarcity (in m³ eg.), The Consumption of energy resources (in MJ) and the Field Yield (in tons / ha). The weighing methodology of the individual indicators defines a weighting of 50% on the agricultural yield (economic-like indicator) and a distribution based on the PEF (Product Environmental Footprint) weighting for the remaining environmental indicators. The indicator is analyzed for the agricultural phase only (1 kg of agricultural product).

ABIOTIC DEPLETION POTENTIAL METALS AND MINERALS

Indicator that measures the impacts associated with the consumption of abiotic (non-living) resources, related to the extraction of minerals and other non-renewable materials, which can lead to the exhaustion of natural resources. It is expressed in kilograms of Antimony (kg Sb eg) equivalent.

FOSSIL FUELS

Indicator that measures the impacts associated with the consumption of fossil fuels and therefore non-renewable resources. For this reason it is guantified in energy terms, in particular in MJ (mega joules).

USE OF RENEWABLE AND NON-RENEWABLE PRIMARY ENERGY RESOURCES

it is a measure of the environmental impacts related to the consumption of primary energy renewable resources (solar, wind, water, geothermal, biomass) and non-renewable (oil, natural gas, coal and fissile materials), used both as an energy carrier and as a raw material.

CARBON FARMING

It consists of implementing better land management practices, resulting in increased carbon seguestration in living biomass, dead organic matter and soil, by improving carbon capture and/ or reducing carbon release to the atmosphere, while respecting ecological principles favorable to biodiversity and natural capital in general.



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