



# Composer for natural x flavorings Sourcing, refining and creating signature taste solutions

White Paper 2021



#### delivering the authentic taste of nature

# code of nature 🥞



Nature surrounds us. It delights us, feeds us and inspires us with its wealth of taste and boundless creativity. Consumers love the taste of nature – with an equally diverse and precise understanding of what nature means to them. With code of nature, customers and consumers receive the real tastes of nature that go into individual products, which entail and combine all facets of naturalness transparently.



### **Consumers** are going all natural

We have entered a new era of naturalness. It is evolving fast and picking up speed every day. Consumers dive deeper into their understanding of food and naturalness with every purchase they make. When choosing and buying their food and beverages they therefore demand nature as pure and rich as possible. Consumers want to know exactly what ingredients go into their food and where they come from. They want products from farmers that care about sustainable

cultivation on healthy soil. Protecting animals also plays a decisive role for many of them. Equally, they want their foods and beverages to be gently prepared and stored so that they keep their original taste and nutritional value. If consumers can actually see that something is made with honesty and integrity then it truly lives up to their expectations and perceptions. Naturalness in these many individual facets is sprouting in San Francisco, Shanghai, Berlin and Seoul – a true global phenomenon.

Consumers want the ultimate taste experience. And they want this experience to come from real food, made only with pure natural ingredients.

This puts the consumer into a great dilemma. Because nature means variety. It is evolving, subtle, ever changing, hard to predict, with crops and harvest depending on the weather, soil, and so much more. At the same time, consumers expect a very specific taste with high impact.

### The industry is turning towards naturalness

These rapid changes within the world of naturalness and the consumer dilemma pose both huge challenges and opportunities on the food and beverage industry. Companies want to offer consumers products that they recognize and accept as truly natural and they have to adapt very quickly. The reason: Local innovators are

pioneering in many areas here and are growing fast. Very often, they are leading the way for international players. Having very much originated in the US, this trend has now spread and is expanding globally. For international players, staying on top will require swiftly changing the game and shifting toward consumers' preference for "real" food.

# Seize your opportunity for naturalness with natural X flavorings

Symrise consumer studies also confirm the importance of naturalness. When consumers see the term "natural x flavoring" on the label, they perceive this as particularly natural and often prefer this over "natural flavoring". For example: a "natural peach flavoring" or "natural onion flavoring" sounds more appealing than a more generic "natural flavoring" – alone.

A natural product becomes particularly attractive when it tastes authentic and offers an enjoyable experience. In this environment, when combined with the expertise and product portfolio of Symrise, regulations such as the new EU Organic Regulation open up a wealth of great tasting opportunities for superior product experiences and natural labelling.

This becomes increasingly important in the growing demand for organic products in Europe. Last year, sales of organic food and beverages recorded high growth across almost all categories.

Where is this trend coming from? Many consumers perceive organic as the most natural option. At the same time, they consider organic products to be healthier and more sustainable. As a result, organic is now considered to be the most important "product promise" on food packaging. (Mintel, 2019)



Appeal to consumers' tastes preferences with organic compliant solutions from Symrise!



Naturalness and organic are increasingly important preference drivers in key markets in Europe.



Consumers in Europe often prefer "natural x flavoring" over "natural flavoring".

# What will change due to the new EU Organic Regulation?

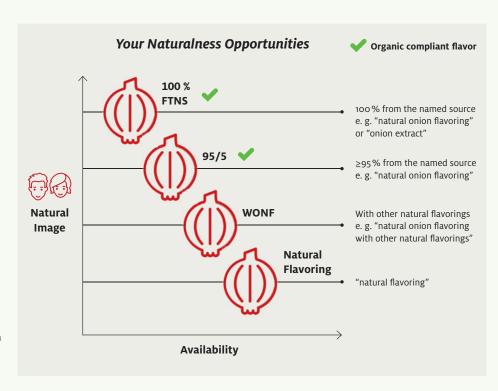
The new EU Organic Regulation¹ goes into effect on January 1st 2022, and defines very precisely the use of natural flavorings in organic products. The relevant definitions are laid down in the EU Flavor Regulation².

After January 2022, only certain natural flavorings will be allowed in organic products (see graphic). At least 95% of a natural flavor must always originate from the named source.

That means for example that at least 95% of tomato flavoring must come from tomato. Up to 5% from other natural sources but only to round off the rich taste or assure a consistant and specific note.

Manufacturers must therefore reformulate their organic products if they use flavors other than natural x-flavorings to meet the new EU requirements. Symrise taste and regulatory experts will guide them through all naturalness opportunities.

<sup>1</sup> EU Organic Regulation (EU) No 2018/848 <sup>2</sup> EU Flavor Regulation (EU) No 1334/2008



# Two flavoring scenarios suitable to do declare natural x flavorings

#### Naturalness – Labelling scenarios · Natural Flavoring 00% Natural WONF 95/5 **Flavoring** Substances 0 1 3 4 > 95% from the named source, Flavoring named source, the named source easily recognizable Natural X Flavoring with other natural Flavorings (= WONF) Examples Natural Spice Flavoring WONF (= WONF) Natural Flavoring Natural Flavoring Substances Vanillin (Gingerbread taste)

Natural X Flavorings (organic suitable)



#### Your benefits

code of nature® forms a framework that pulls together the versatile natural expertise of Symrise. It goes beyond a mere portfolio of natural products.

It enables a unique code of nature for each and every individual customer and solution. It connects the dots of the long scientific heritage at Symrise with deep consumer understanding, sustainable backward integration, regulatory consultancy capability. This dedicated approach combines the work of Symrise experts with longstanding certified

partners, respecting nature, and using gentle technology and processes to amplify nature.

Your BENEFITS	<b>Depictability&amp; Claimability</b> of ingredients on front label	Healthy product positioning	<b>Storytelling</b> on labels & communication
Superior, authentic sensory experience	<b>Organic</b> suitable	of the regulate	derstanding ory framework O constraints

code of nature® goes beyond grey system theory.

### Taking all this together, An every day practice

Because Symrise is combining its wide expertise for each and every customer wish, each time it is creating unique and individual, truly and purely natural solutions – a unique code.

Symrise crafts inspiring solutions for its customers and consumers.

### **Our Key Tonalities**

Make consumers to enjoy the authentic taste of your products. Symrise supplys you with the best from the named sources - including 95 % to 100 % natural ingredients.

Discover our key tonaltities for natural x flavorings for your savory products.

Colon	Dairy Savory	Cheese, Cream
	Herbs and Spices	Nutmeg, Paprika, Turmeric, Basil, Pepper, Dill, Chili
	Onion	Onion
	Savory	Soy Sauce
	Vegetable	Tomato, Garlic, Cucumber, Celery, Carrot, Vegetable

### **Portfolio Compilation**

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Product Code	Product Name	Cluster	Legal Name	95/5 or 100% FTNS	Dosage (%)	RTD/ RTE
282235	Beef	Beef	Chicken Beef Flavoring	95/5	0,30%	Boullion
282239	Beef	Beef	Chicken Beef Flavoring	95/5	0,30%	Boullion
282240	Beef	Beef	Chicken Beef Flavoring	95/5	0,30%	Boullion
294255	Chicken	Chicken	Chicken Chicken Flavoring	95/5	0,30%	Boullion
294290	Chicken	Chicken	Chicken Chicken Flavoring	95/5	0,30%	Boullion
294293	Chicken	Chicken	Chicken Chicken Flavoring	95/5	0,30%	Boullion
994742	Cream	Dairy Savory	Chicken Dairy Flavoring	FTNS	0,50%	Sauce
191806	Butter	Dairy Savory	Chicken Butter Flavoring	95/5	0,08%	Margarine
199468	Cheese	Dairy Savory	Chicken Cheese Flavoring	FTNS	0,30%	Sauce
435553	Cheese	Dairy Savory	Chicken Cheese Flavoring	95/5	0,20%	Sauce
994618	Cheese	Dairy Savory	Chicken Cheese Flavoring	95/5	0,50%	Sauce
654227	Pepper	Herbs and Spices	Chicken Pepper Flavoring	FTNS	0,10%	Meat
816434	Paprika	Herbs and Spices	Chicken Paprika (Red Spice) Flavoring	FTNS	0,10%	Ketchup
855108	Dill	Herbs and Spices	Chicken Dill Flavoring	FTNS	0,10%	Dressing
973482	Chili	Herbs and Spices	Chicken Chili Flavoring	FTNS	0,10%	Dressing
651131	Turmeric	Herbs and Spices	Chicken Turmeric Flavoring	FTNS	0,12%	Mayonaise
652995	Basil	Herbs and Spices	Chicken Basil Flavoring	FTNS	0,10%	Dressing
610690	Paprika	Herbs and Spices	Chicken Paprika (Red Spice) Flavoring	FTNS	0,10%	Ready Meal
268472	Nutmeg	Herbs and Spices	Chicken Nutmeg Flavoring	FTNS	0,20%	Sauce
805708	Pepper	Herbs and Spices	Chicken Pepper Flavoring	95/5	0,10%	Ketchup
973004	Chili	Herbs and Spices	Chicken Chili Flavoring	95/5	0,02%	Sauce
300509	Mustard	Herbs and Spices	Chicken Mustard Flavoring	95/5	0,01%	Mayonaise
108430	Pepper	Herbs and Spices	Chicken Pepper Flavoring	95/5	0,05%	Soup
118485	Onion	Onion	Chicken Onion Flavoring	95/5	0,20%	Ready Meal
289901	Onion	Onion	Chicken Onion Flavoring	FTNS	0,35%	Mayonaise

## **Portfolio Compilation**

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Product Code	Product Name	Cluster	Legal Name	95/5 or 100% FTNS	Dosage (%)	RTD/ RTE
613908	Onion	Onion	Chicken Onion Flavoring	95/5	0,10%	Sauce
619984	Onion	Onion	Chicken Onion Flavoring	FTNS	0,10%	Soup
647759	Onion	Onion	Chicken Onion Flavoring	FTNS	0,04%	Ketchup
648859	Onion	Onion	Chicken Onion Flavoring	FTNS	0,10%	Sauce
650470	Onion	Onion	Chicken Onion Flavoring	FTNS	0,05%	Cream Cheese
655162	Onion	Onion	Chicken Onion Flavoring	FTNS	0,08%	Ketchup
653099	Soy Sauce	Savory	Chicken Soy Sauce Flavoring	FTNS	0,50%	Sauce
407303	Tomato	Vegetable	Chicken Tomato Flavoring	95/5	0,10%	Soup
459612	Mushroom	Vegetable	Chicken Mushroom (Button) Flavoring	95/5	0,10%	Boullion
616483	Carrot	Vegetable	Chicken Carrot Flavoring	95/5	0,40%	Soup
619397	Mushroom	Vegetable	Chicken Mushroom (Button) Flavoring	95/5	0,10%	Soup
654186	Vegetable	Vegetable	Chicken Vegetable Flavoring	95/5	0,06%	Ready Meal
655116	Vegetable	Vegetable	Chicken Vegetable Flavoring	95/5	0,02%	Soup
800190	Vegetable	Vegetable	Chicken Vegetable Flavoring	95/5	0,30%	Soup
138295	Tomato	Vegetable	Tomato Extract	FTNS	0,50%	Spread
647459	Garlic	Vegetable	Chicken Garlic Flavoring	FTNS	0,03%	Ketchup
653643	Cucumber	Vegetable	Chicken Cucumber Flavoring	FTNS	0,20%	Dip
653713	Celery	Vegetable	Chicken Celery Flavoring	FTNS	0,25%	Sauce
654986	Carrot	Vegetable	Chicken Carrot Flavoring	FTNS	0,20%	Sauce
655227	Vegetable	Vegetable	Chicken Vegetable Flavoring	FTNS	0,20%	Ready Meal
792956	Garlic	Vegetable	Chicken Garlic Flavoring	FTNS	0,15%	Dressing
850100	Garlic	Vegetable	Chicken Garlic Flavoring	FTNS	0,10%	Ready Meal
311502	Wine	Wine	Chicken Wine Flavoring	95/5	1,00%	Sauce
311503	Wine	Wine	Chicken Wine Flavoring	95/5	1,00%	Sauce



## Why Symrise:

- Technology
  Sourcing of the best nature has to offer
- Design
  Sensory based taste modelling on a molecular level
- Refinement
  Gentle processing of natures' varieties

