# \*\* NATURAL PROTECTION FROM SPOILAGE



# FROM THE STUDY OF PLANTS AND BOTANICALS A BRILLIANT CONCEPT HAS EMERGED

#### INTRODUCING THE CORE INGREDIENT

The quest for a natural solution to help freshness is over.

A botanical extract from the Rowan berry is the answer:

X-TRA GUARD, the most recent innovation formulated by the recently merged BioNaturals and Millbo companies.



#### THE ROWAN BERRY TREE

#### A STORY OVER THE YEARS



#### Sòrbus aucuparia L.

(n.) [cent. XV; lat. Scient. sŏrbus]

"Latin name used in the botanical classification to indicate trees and saplings of the rosaceae pomoidee genus: The Rowan Berry Tree.

The tree has orange or scarlet fruits with a 1cm diameter from which an edible essence, much loved by birds, (Aucuparia) can be extracted".

#### MILLBIO SOLUTION FOR BAKERY PRODUCTS



X-TRA GUARD is a **natural ingredient** which has been extracted from the Rowan berry, with the use of a tapioca flour carrier. It has been meticulously developed to help long shelf life products and is wholly derived from the Rowan berry's natural botanical compounds.



#### FOOD MATTERS LIVE WINNER PRODUCT

«FOOD» MAGAZINE - ADV PAGE

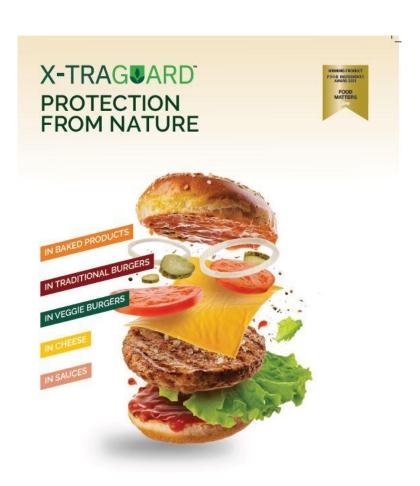












VEGAN | CLEAN LABEL | NO GMO | NO ADDITIVES

X-tra Guard is the innovative line created with botanical extracts, in particular the rowan berry (Sorbus Aucuparia L.), a natural source of sorbate. It offers important advantages both in applications and in label declarations. To find out more, write to info@millbo.it



#### X-TRA GUARD FEATURES

- A CLEAN LABEL SOLUTION
- ALLERGEN FREE
- AN INGREDIENT NOT AN ADDITIVE
- VERIFIED EFFECTIVE ON SHELF LIFE
- KOSHER AND HALAL CERTIFIED
- NON GMO
- LABEL FRIENDLY DECLARATION:
   botanical/plant/fruit extract (Sorbus aucuparia L.)\*











<sup>\*</sup>Ask for the leading lawyers written opinion on label declaration

#### PRODUCT DESCRIPTION AND RECOMMENDED DOSAGE



**DESCRIPTION**: plant/ fruit/ botanical extract



INGREDIENTS: botanical extract (Sorbus aucuparia L.), tapioca flour



**APPARANCE**: off white to light yellow powder



ODOR AND FLAVOUR: fruity and slightly acid



**DOSAGE:** the recommended dosage is between 0.25 and 0.5 % on total recipe\*

<sup>\*</sup>Contact our customer care for advice on the best solutions for your products.

### APPLICATIONS: WHERE EXTENDED SHELF LIFE IS WANTED



#### PRACTICAL INFORMATION



**PACKAGING** 20 kg paper bags with liner

50 bags/pallet 100x120 cm (= 1000 kg pallet)



MOQ

1 pallet



**LEAD TIMES** 1 to 20 MT: 2 weeks

Over 20 MT: 6 weeks



SHELF LIFE 12 months from date of manufacturing



**STORAGE** 

Ambient and dry (max 25°C)



# COST IN USE – EXAMPLE 1: PIADINA RECIPE

INGREDIENTI	% on total recipe	rm cost €/kg	cost	total
Flour (W180/200)	61,9	0,6	0,37	
Water	31,2	0	0	
Extra virgin olive oil	3,6	6	0,22	0,66
Salt	1,3	0,2	0,00	
Baking powder	1,5	1,2	0,02	
X-TRA GUARD - 5000 ppm	0,50	12	0,06	



# COST IN USE – EXAMPLE 2: POUND CAKE RECIPE

INGREDIENTS	% on total recipe	rm cost €/kg	cost	total
Flour	25,65	0,6	0,15	
Butter	21,5	8	1,72	
Sugar	21,5	0,9	0,19	
Eggs	21,5	1,6	0,34	
Milk	4,3	0,7	0,03	
Baking powder	0,8	1,2	0,01	2,50
Salt	0,2	0,2	0,00	
Starch	4,3	0,5	0,02	
X-TRA GUARD - 2500 ppm	0,25	12	0,03	



## X-TRA GUARD (Sorbus aucuparia L.)

CODE	PRODUCT
4292	X-TRA GUARD – rowan berry extract - standard version
4309	X-TRA GUARD GF — rowan berry extract - gluten free version
4326	X-TRA GUARD FERM — fermented flour and botanical extract
4288	X-TRA GUARD S — rowan berry extract - soluble version
4308	X-TRA GUARD S GF — rowan berry extract — soluble and gluten free version
BN21016	X-TRA GUARD V – rowan berry extract with vinegar powder
BN21013	X-TRA GUARD L – rowan berry extract with lemon powder
4327	X-TRA GUARD BIO – organic version
4344	X-TRA GUARD 50 LDE – rowan berry extract – USA market



**PALLETIZATION:** 30 x 20 kg bag - 600 kg pallet (80 x 120) or 50 x 20 kg bag - 1000 kg (100 x 120)



CUSTOM TARIFF: 21 06





#### **ASK NOEMI**

For full technical data sheet, safety data sheet and product samples requests.

n.boldini@millbo.it T +39 0321 795911



Millbo srl via Bellaria I - 28069 Trecate NO ph. +39 0321 795911 info@millbo.it





