

**Spec. / Rev** 128972 / 1  
**Status** Current

**Effective Date** 25-Apr-2019  
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Cargill B.V.  
 Cargill Cocoa & Chocolate  
 Evert van de Beekstraat 378, 1118 CZ Schiphol  
 P.O. Box 75840, 1118 ZZ Schiphol (The Netherlands)

Tel +31 (0)20 500 6000  
 Fax +31 (0)20 500 6985  
 cocoa\_chocolate@cargill.com  
 www.cargillcocoachocolate.com

Cargill Cocoa & Chocolate is a trade name of Cargill B.V. Registered in Amsterdam with number 33119622



### General Information

		Comment
Product Description	Cocoa, with alkali	21CFR163.112-114
Manufacturer Information	Cargill Cocoa & Chocolate	
Country of Origin	The Netherlands	

### Process Description Cocoa Powder

Cocoa powder is obtained by hydraulic pressing of cocoa mass whereby cocoa butter is separated from the cocoa cake, after which the cocoa cake is pulverized into a fine free flowing cocoa powder. Cocoa mass is produced from cocoa beans, which are deshelled and broken into cocoa nibs (the kernels). These kernels are alkalized (except for the natural cocoa powder), roasted and ground into a fine cocoa mass.

### Sensoric Description

		Comment
Appearance	Fine powder, free flowing	
Colour	Medium red brown	
Taste	Typical, no off flavours	
Odour	Typical, no off flavours	

### Chemical and Physical Parameters

		Min	AVG	Max	UOM	Method	Comment
Cocoa Butter Content	-	10		12	%	ICA 37, 1990**	
Moisture Content	-			4.5	%	ICA 1, 1950**	
pH	in 10% solution	6.7	6.9	7.1	pH units	ICA 15, 1972*	
Ash Content	on Fat Free Dry Matter			11.6	%	ICA 16, 1973**	

		Min	AVG	Max	UOM	Method	Comment
Fineness, 75µm	Wet Sieve Residue	99.8			%	ICA 11, 1970**	
Shell Content	on Alkali Free Nibs			1.75	%	AOAC 970.23	

### Microbiological Analysis

		Min	AVG	Max	UOM	Method	Comment
Total Aerobic Plate Count	-			5000	CFU/g	ICA 39, 1990 no. 2*	
Yeasts	-			10	CFU/g	ICA 39, 1990 no. 7*	
Moulds	-			50	CFU/g	ICA 39, 1990 no. 7*	
Mesophilic Spores	-			5000	CFU/g	ICA 39, 1990 no. 3*	10min. 80°C; 3days at 30°C

		Value	UOM	Method	Comment
Enterobacteriaceae	-	Absent		Internal Method BAC04	in 1g
E-Coli	-	Absent		Internal Method BAC04	in 1g
Salmonella	-	Absent		ISO-6579/PCR/ICA39**	in 750g
Lipase Activity	-	Negative			
Protease Activity	-	Negative			

### Supplementary to the Method

General: methods may differ at affiliates

\* : equivalent to referred method

\*\* : internal method based on referred method

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### Nutritional Values

Nutrient	Value	UOM
kJ	1255	kJ/100g
kCal	301	kCal/100g
Fat	10.4	%
Saturated Fat	6.4	%
Mono Unsaturated Fat	3.7	%
Poly Unsaturated Fat	0.4	%
Total Carbohydrates *	10.1	%
Total Carbohydrates US regulations *	53.1	%
Sugars	0.6	%
Added Sugar	0	%
Starch	9.5	%
Insoluble Dietary Fiber	27.4	%
Soluble Dietary Fiber	4.3	%
Protein	23	%
Salt ** (= 2,5x Na)	0.07	%
Organic Acids	3.5	%
Theobromine	2.3	%
Caffeine	0.2	%
Moisture	3.5	%
Ash	10	%
K (Potassium)	4230	mg/100g
Na (Sodium)	30	mg/100g
Ca (Calcium)	160	mg/100g
Mg (Magnesium)	570	mg/100g
Fe (Iron)	40	mg/100g
Cu (Copper)	5	mg/100g
Zn (Zinc)	8	mg/100g
Cl (Chloride)	0	mg/100g
P (Phosphorus)	740	mg/100g
Vitamin A (Retinol)	0	mg/100g
Vitamin B1 (Thiamin)	0.2	mg/100g
Vitamin B2 (Riboflavin)	0.2	mg/100g
Vitamin B3 (Niacin)	4.4	mg/100g
Vitamin B5 (Pantothenic Acid)	1.8	mg/100g
Vitamin B6 (Pyridoxine)	0.1	mg/100g
Vitamin C (Ascorbic Acid)	0	mg/100g
Vitamin D (Cholecalciferol)	0	mg/100g
Vitamin E (Tocopherol)	2.3	mg/100g
Cholesterol	0	mg/100g

### Trans Fatty Acids

Trans Fatty Acids: < 0.5 g/100g

### Comments on Nutritional data

The above nutritional values are all indicative data. The values originate from analytical results. The expressed analytical data comprise relevant nutritional components only. Therefore the sum does not equal 100%.

\* Total Carbohydrates is the sum of Sugars, Polyols and Starch, as defined in Annex I of Regulation EC N° 1169/2011.

Total Carbohydrates US Regulation is calculated as: 100 - (protein + fat + moisture + ash), as defined in 21 CFR 101.9

\*\* The salt content is exclusively due to the presence of naturally occurring sodium.

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### Packaging and Storage Information/Recommendations

#### Storage / Distribution Conditions

	Description	UOM	Comment
Shelf Life	36	month(s)	at below storage conditions
Relative Humidity	max 50	%	-
Storage Temperature	10 - 25	°C	-
Transport Temperature	max 25	°C	-

#### Labeling Information

The product labeling (if applicable) contains following standard information:

Label:

- type
- lot number
- production date
- best before date

Bag / Carton:

- net weight
- name of manufacturer
- country of origin

#### Explanation product coding

The lot number is made up of eight/nine digits and is composed as follows:

- L(L) xx xx x xx L(L) = location code
- x(x) YY xx x xx YY = year code
- x(x) xx WW x xx WW = week code
- x(x) xx xx M xx M = machine/product code
- x(x) xx xx x SS SS = production sequence of product/machine in one specific week

Year code

This is a consecutive number, indicating the production year, eg. 08 for 2008.

Week code

This code is the number of the week according to the standard week numbering.

### Dietary Information

#### Suitable for

	Suitable for	Certified	Comment
Kosher	Yes	Yes	Orthodox Union
Vegetarian	Yes	No	
Halal	Yes	Yes	Halal Food Council of Europe
Vegans	Yes	No	
Coeliacs	Yes	No	EG 41/2009

### Allergens

A = Used as ingredient in recipe
B = Present in cocoa powder production areas
C = Unintended presence during processing

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	A	B	C	Comment
Beef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carrot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Celery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chicken	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cocoa	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Coriander	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Corn (Maize)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Egg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Glutamate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gluten	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lactose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Legumes/pulses (other)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lupin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Milk protein	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mollusc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nut oils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nuts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Peanut oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Peanuts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rye	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sesame	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sesame oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shellfish/Crustaceans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Soy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Identity Preserved lecithin (non GMO)*
Sulfites (E220-228)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Naturally occurring, < 10 ppm
Wheat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

### Comments on Allergens

All Allergens should read: including derivatives.

The allergens listed above are in accordance with European directive 2000/13/EC about labeling, presentation and advertising of foodstuff, and amendments.

\*Soy presence in the Wormer plant will no longer be applicable for cocoa powders with a lot number starting with 21904xxx or higher.

### Comments

- U.O.M. = Unit of Measurement
- N.D. = Not detectable
- If fields are left empty, the parameter is not applicable or no specification can be given.
- All specifications guaranteed at time of loading.
- The microbiological values are not obtained by any means of radiation, nor any sort of gas treatment.
- This specification is confirmed to also cover product of this type delivered under UTZ or Fairtrade mass balance (Cargill B.V. FLO-ID:23857)

This specification is valid till two years from printed date and supersedes all previous specifications of the same product.

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part, nor passed to any third party, unless authorized in writing by an authorized representative of Cargill.

**Approved by:**

Wout Clictour

Cocoa and Chocolate FSQR Director Europe