

## Technical Data Sheet

|                 |  |
|-----------------|--|
| <b>Name</b>     | <b>ARTISAN BLACK, Fat-reduced Cocoa Powder, Alkalized, 10 – 12%</b>  |
| <b>Producer</b> | <b>Olam Cocoa Pte Ltd</b><br>• 342, Jalan Boon Lay, Singapore 619527 |

**Composition** Cocoa, sodium hydroxide

### Specification

| Parameter                      | Value          | Method  |
|--------------------------------|----------------|---|
| Colour                         | Meets standard | Internal method                               |
| Flavour                        | Meets standard | Internal method                               |
| Fat content                    | 10.0 – 12.0%   | ICA 37/1990 (Extraction with petroleum ether) |
| pH (in 10% solution)           | 8.0 – 8.6      | ICA 15/1972                                   |
| Fineness (through 75 µm sieve) | 99.5% min.     | ICA 38/1990 (Water suspension)                |
| Moisture content               | 5.0% max.      | ICA 1/1952                                    |

### Microbiological Characteristics

| Parameter                    | Value                  | Method      |
|------------------------------|------------------------|-------------|
| Standard plate count (cfu/g) | 5000 max. (Median 300) | ICA 39/1990 |
| Moulds (cfu/g)               | 50 max. (Median 10)    | ICA 39/1990 |
| Yeasts (cfu/g)               | 50 max. (Median 10)    | ICA 39/1990 |
| Enterobacteriaceae (per g)   | Negative to test       | ICA 39/1990 |
| E. coli (per g)              | Negative to test       | ICA 39/1990 |
| Salmonellae (per 375g)       | Negative to test       | ICA 39/1990 |

### Storage

Store in a clean, cool, dry, well-ventilated area, away from strong odors.

### Certification

**Kosher** certified



**Halal** certified



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## Indicative Nutritional Information

|                 |  |
|-----------------|--|
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| <b>Producer</b> | <b>Olam Cocoa Pte Ltd</b>  |
|                 | <ul style="list-style-type: none"> <li><b>342, Jalan Boon Lay, Singapore 619527</b></li> </ul> |

### Main components

|                                  |      |        |
|----------------------------------|------|--------|
| Total fat                        | 11.0 | g/100g |
| Moisture                         | 4.0  | g/100g |
| Protein                          | 22.0 | g/100g |
| Total carbohydrates <sup>1</sup> | 48.8 | g/100g |
| Theobromine                      | 2.0  | g/100g |
| Caffeine                         | 0.2  | g/100g |
| Ash                              | 12.0 | g/100g |

### Minerals

|             |      |         |
|-------------|------|---------|
| Calcium     | 150  | mg/100g |
| Chloride    | 12   | mg/100g |
| Magnesium   | 550  | mg/100g |
| Phosphorous | 700  | mg/100g |
| Potassium   | 2000 | mg/100g |
| Sodium      | 2500 | mg/100g |
| Iron        | 35   | mg/100g |
| Zinc        | 7    | mg/100g |
| Copper      | 4    | mg/100g |

### Fat

|                      |       |         |
|----------------------|-------|---------|
| Saturated fat        | 6.8   | g/100g  |
| Mono-unsaturated fat | 3.8   | g/100g  |
| Poly-unsaturated fat | 0.4   | g/100g  |
| Trans fat            | <0.01 | g/100g  |
| Cholesterol          | <1    | mg/100g |

### Vitamins

|                               |      |         |
|-------------------------------|------|---------|
| Vitamin A                     | <50  | IU/100g |
| Vitamin B1 (thiamine)         | 0.1  | mg/100g |
| Vitamin B2 (riboflavin)       | 0.1  | mg/100g |
| Vitamin B3 (niacin)           | 2.0  | mg/100g |
| Vitamin B5 (pantothenic acid) | 1.5  | mg/100g |
| Vitamin C                     | <0.1 | mg/100g |
| Vitamin E                     | <3.5 | IU/100g |

### Carbohydrates

|               |      |        |
|---------------|------|--------|
| Dietary Fiber | 32.0 | g/100g |
| Starch        | 11.5 | g/100g |
| Organic acids | 4.0  | g/100g |
| Sugars        | 1.0  | g/100g |

### Energy<sup>2</sup>

|                 |     |           |
|-----------------|-----|-----------|
| Energy          | 197 | kcal/100g |
| Energy from fat | 92  | kcal/100g |

<sup>1</sup> Total carbohydrates are defined here as 100 – (fat + moisture + protein + theobromine + caffeine + ash)

<sup>2</sup> Energy calculated according to Atwater system for cocoa and chocolate. Reference Table 13, USDA Handbook No. 73

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## Allergens and Sensitizers Information

|                 |   |
|-----------------|---|
| <b>Name</b>     | ARTISAN BLACK, Fat-reduced Cocoa Powder, Alkalized, 10 – 12%                            |
| <b>Producer</b> | Olam Cocoa Pte Ltd  |
|                 | <ul style="list-style-type: none"> <li>342, Jalan Boon Lay, Singapore 619527</li> </ul> |

| Declarable allergens<br>EU <sup>1</sup> and USA <sup>2</sup> | Part of<br>recipe | Used on<br>shared<br>line | As raw<br>material in<br>factory | Comments  |
|--|-------------------|---------------------------|----------------------------------|---|
| <b>Gluten</b>  | No                | No                        | No                               | <20 ppm gluten  |
| - Wheat  | No                | No                        | No                               |   |
| - Rye  | No                | No                        | No                               |   |
| - Barley   | No                | No                        | No                               |   |
| - Oats   | No                | No                        | No                               |   |
| - Spelt  | No                | No                        | No                               |   |
| - Kamut  | No                | No                        | No                               |   |
| Crustaceans  | No                | No                        | No                               |   |
| Egg  | No                | No                        | No                               |   |
| Fish   | No                | No                        | No                               |   |
| Peanuts  | No                | No                        | No                               |   |
| Soy  | No                | No                        | No                               |   |
| Milk   | No                | No                        | Yes                              | Dedicated line and equipment are used to produce product with allergen. Dedicated area to keep the product. |
| <b>(Tree) Nuts</b>   | No                | No                        | No                               |   |
| - Almonds  | No                | No                        | No                               |   |
| - Hazelnuts  | No                | No                        | No                               |   |
| - Walnuts  | No                | No                        | No                               |   |
| - Cashews  | No                | No                        | No                               |   |
| - Pecan nuts   | No                | No                        | No                               |   |
| - Brazil nuts  | No                | No                        | No                               |   |
| - Pistachio nuts   | No                | No                        | No                               |   |
| - Macademia/Queensland nuts                                  | No                | No                        | No                               |   |
| - Beech nut  | No                | No                        | No                               |   |
| - Butter nut   | No                | No                        | No                               |   |
| - Chestnut   | No                | No                        | No                               |   |
| - Chinquapin   | No                | No                        | No                               |   |
| - Coconut  | No                | No                        | No                               |   |
| - Ginkonut   | No                | No                        | No                               |   |
| - Hickory nut  | No                | No                        | No                               |   |
| - Lichee nut   | No                | No                        | No                               |   |
| - Pine nut   | No                | No                        | No                               |   |
| - Pistachio  | No                | No                        | No                               |   |
| - Sheanut  | No                | No                        | No                               |   |

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## Allergens and Sensitizers Information

|  |                       |                            |                                   |   |
|--|-----------------------|----------------------------|-----------------------------------|---|
| Celery   | No                    | No                         | No                                |   |
| Mustard  | No                    | No                         | No                                |   |
| Sesame   | No                    | No                         | No                                |   |
| Sulphur dioxide and sulphites (expressed as SO <sub>2</sub> ) >10ppm | No                    | No                         | No                                | +/- 2ppm present by nature, none added                                  |
| Lupin  | No                    | No                         | No                                |   |
| Molluscs   | No                    | No                         | No                                |   |
| <b>Additional allergens EU: LeDa list v2.0 – 2011</b>                | <b>Part of recipe</b> | <b>Used on shared line</b> | <b>As raw material in factory</b> | <b>Comments</b>   |
| Lactose  | No                    | No                         | No                                |   |
| Cocoa  | Yes                   | Yes                        | Yes                               | The product is cocoa  |
| Glutamate (E620 – E625)  | No                    | No                         | No                                | Natural presence of glutamic acid in/from the cocoa protein, none added |
| Corn/maize   | No                    | No                         | No                                |   |
| Legumes  | No                    | No                         | No                                |   |
| Beef   | No                    | No                         | No                                |   |
| Pork   | No                    | No                         | No                                |   |
| Carrot   | No                    | No                         | No                                |   |
| <b>Additional allergens – Japan: CAA list – 2013</b>                 | <b>Part of recipe</b> | <b>Used on shared line</b> | <b>As raw material in factory</b> | <b>Comments</b>   |
| Abalone  | No                    | No                         | No                                |   |
| Chicken (poultry)  | No                    | No                         | No                                |   |
| Crab   | No                    | No                         | No                                |   |
| Gelatin  | No                    | No                         | No                                |   |
| Mackarel   | No                    | No                         | No                                |   |
| Shrimp/prawn   | No                    | No                         | No                                |   |
| Salmon   | No                    | No                         | No                                |   |
| Salmon roe   | No                    | No                         | No                                |   |
| Squid  | No                    | No                         | No                                |   |
| Apples   | No                    | No                         | No                                |   |
| Banana   | No                    | No                         | No                                |   |
| Kiwifruit  | No                    | No                         | No                                |   |
| Manggo   | No                    | No                         | No                                |   |
| Oranges  | No                    | No                         | No                                |   |
| Peaches  | No                    | No                         | No                                |   |
| Mushrooms  | No                    | No                         | No                                |   |
| Yams   | No                    | No                         | No                                |   |
| Buckwheat  | No                    | No                         | No                                |   |
| <b>Other substances of potential interest</b>                        | <b>Part of recipe</b> | <b>Used on shared line</b> | <b>As raw material in factory</b> | <b>Comments</b>   |
| Animal products (other)  | No                    | No                         | No                                |   |
| Antioxidants   | No                    | No                         | No                                | Natural presence of antioxidants, none added                            |

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## Allergens and Sensitizers Information

|   |    |    |     |   |
|---|----|----|-----|---|
| <b>Artificial (AZO) colors</b>              | No | No | No  |   |
| - E102 Tartrazine                           | No | No | No  |   |
| - E104 Quinoline yellow                     | No | No | No  |   |
| - E110 Sunset Yellow FCF<br>Orange Yellow S | No | No | No  |   |
| - E122 Azorubine                            | No | No | No  |   |
| - E124 Ponceau 4R<br>Cochineal Red A        | No | No | No  |   |
| - E129 Allura Red AC                        | No | No | No  |   |
| - Other                                     | No | No | No  |   |
| Artificial sweeteners                       | No | No | No  |   |
| Benzoic acid and parabens<br>(E210 – E219)  | No | No | No  | Approximately 8ppm benzoic acid<br>present by nature, none added  |
| BHA/BHT                                     | No | No | No  |   |
| Cottonseed flour                            | No | No | No  |   |
| Flavors (artificial and/or natural)         | No | No | No  |   |
| Latex                                       | No | No | No  |   |
| Leguminosae                                 | No | No | No  |   |
| Phenylalanine                               | No | No | No  | Natural presence in the cocoa protein,<br>none added  |
| Phosphates                                  | No | No | No  |   |
| Preservatives (added)                       | No | No | No  |   |
| Sorbic acid                                 | No | No | No  |   |
| <b>Spices</b>                               | No | No | No  |   |
| - Cinnamon                                  | No | No | No  |   |
| - Coriander                                 | No | No | No  |   |
| - Vanilla                                   | No | No | No  |   |
| - Cardamom                                  | No | No | No  |   |
| - Clove                                     | No | No | No  |   |
| - Nutmeg                                    | No | No | No  |   |
| Vanillin                                    | No | No | Yes | Dedicated line and equipment are used<br>to produce product with allergen.<br>Dedicated area to keep the product. |
| <b>Sugars</b>                               | No | No | No  | Natural presence, none added  |
| - Saccharose (sucrose)                      | No | No | No  |   |
| - Glucose                                   | No | No | No  |   |
| - Fructose                                  | No | No | No  |   |
| Umbelliferae                                | No | No | No  |   |
| Vegetable extracts                          | No | No | No  |   |
| Vegetable protein                           | No | No | No  | Cocoa contains protein by nature, none<br>added   |
| Vitamins                                    | No | No | No  | Naturally present, none added   |
| Yeast                                       | No | No | No  |   |

<sup>1</sup> EU: Regulation 1169/2011

<sup>2</sup> USA: Food Allergen Labeling and Consumer Protection Act of 2004 (Public Law 108-282, Title II)