	TITLE: <b>FOOD SERVICE DAIRY SO:SHI</b> (DC Internal)	<b>SPEC NO</b> <b>DCFPS048</b>
	ISSUED BY: QA: Technical Manager	
	APPROVED BY: Customer	<b>PAGE: 1 of 4</b>
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### Product Description

The product consists of luxury dessert sorbet which starts as a pasteurised base mix, and to which fruit juice concentrates & natural flavours are added. The frozen sorbet is extruded & prepared into a "tube" with a luxurious centre filling consisting of fruit pulp or other suitable product, surrounded by wafer paper. The final product should show no evidence of defects caused by mismanagement of the process or temperature abuse. The final product contains only natural flavours & colourants, as well as no added preservatives.

### Ingredients

Lemon Sorbet with Strawberry centre	<b>Sorbet</b>	Water (61.67%), sugar, liquid sugar, cream (4.85%) (from cow's milk), lemon juice concentrate, glucose corn powder, stabiliser (mono & diglycerides E471, guar gum E412, locust bean gum E410), natural flavours.
	<b>Centre filling</b>	Strawberries (50%), sugar, stabilisers (starch E1422, xanthan gum E415, tara gum E417), natural flavours, natural colour E163, citric acid (E330).
	<b>Wafer paper</b>	Potato starch, Vegetable oil, water.
Pomegranate-Lemon Sorbet with mixed Berry centre	<b>Sorbet</b>	Water (65.47%), sugar, liquid sugar, cream (4.4%) (from cow's milk), apple juice concentrate, pomegranate juice concentrate, glucose corn powder, lemon juice concentrate, stabiliser (mono & diglycerides E471, guar gum E412, locust bean gum E410), aronia juice concentrate, raspberry juice concentrate, natural flavours.
	<b>Centre filling</b>	Strawberries, blackberries, raspberries, blueberries, blackcurrants (total fruit 50%), sugar, stabilisers (starch E1422, xanthan gum E415, tara gum E417), natural flavours, citric acid (E330).
	<b>Wafer paper</b>	Potato starch, Vegetable oil, water.
Apple sorbet with Apple-Cinnamon centre	<b>Sorbet</b>	Water (61.75%), apple juice concentrate, sugar, liquid sugar, inulin, cream (2%) (from cow's milk), glucose corn powder, stabiliser (mono & diglycerides E471, guar gum E412, locust bean gum E410), natural flavours, lemon juice concentrate.
	<b>Centre filling</b>	Apple, sucrose, water, starch (E1422), caramel colouring (E150a), cinnamon, citric acid – acidity regulator (E330), salt, colouring (E100)
	<b>Wafer paper</b>	Potato starch, Vegetable oil, water.

### Nutrition Information

<b>Lemon sorbet with Strawberry centre</b>				<b>Pomegranate-Lemon sorbet with mixed Berry centre</b>			
Average weight of 1 tube - (1 tube supplies approx. 2 servings of 5pcs each)		100g		Average weight of 1 tube - (1 tube supplies approx. 2 servings of 5pcs each)		100g	
<b>Calories</b>		<b>127</b>		<b>Calories</b>		<b>110</b>	
Calories from Fat		14		Calories from Fat		14	
% Daily Value				% Daily Value			
<b>Total Fat</b>	1.6g	2%		<b>Total Fat</b>	1.6g	2%	
Saturated Fat	1.3g	7%		Saturated Fat	1.3g	7%	
Trans Fat	0g			Trans Fat	0g		
<b>Cholesterol</b>	8.9mg	3%		<b>Cholesterol</b>	12.2mg	4%	
<b>Sodium</b>	0mg	0%		<b>Sodium</b>	0mg	0%	
<b>Total Carbohydrate</b>	29g	10%		<b>Total Carbohydrate</b>	25g	8%	
Dietary fibre	0.3g	1%		Dietary fibre	0.8g	3%	
Sugars	23.7g	•		Sugars	21.2g	•	
<b>Protein</b>	0.3g	•		<b>Protein</b>	0.2g	•	
Vitamin A	15%	Vitamin C	1%	Vitamin A	8%	Vitamin C	2%
Calcium	7%	Iron	1%	Calcium	9%	Iron	1%

<b>Apple sorbet with Apple-Cinnamon centre</b>			
Average weight of 1 tube - (1 tube supplies approx. 2 servings of 5pcs each)		100g	*Nutrition information is set up according to FDA food label recommendations. Percent daily values are based on a 2000 calorie diet. Daily values may be higher or lower depending on individual calorie needs.
<b>Calories</b>		<b>117</b>	
Calories from Fat		8	
		% Daily Value	
<b>Total Fat</b>	0.9g	1%	
Saturated Fat	0.6g	3%	
Trans Fat	0g		
<b>Cholesterol</b>	0.9mg	0%	
<b>Sodium</b>	0mg	0%	
<b>Total Carbohydrate</b>	27g	9%	
Dietary fibre	0g	0%	
Sugars	21g	•	
<b>Protein</b>	0.3g	•	
Vitamin A	0%	Vitamin C	1%
Calcium	8%	Iron	0%

### General physical standards

Flavour – 5% tolerance from set standard	Colour – 5% tolerance from set standard	Texture – soft & smooth except for fruit berries & seeds	Sorbet over-run – Max 20%
Av. weight of a “tube” 100g	Av. length of a “tube” 18cm	Foreign matter	Nil

### Organoleptic & chemical standards

Variant	Taste	Milk solids	Sucrose by added weight	Brix°	pH
Lemon sorbet with Strawberry centre	Tangy Lemon with sweet Strawberry combination	1.8%	34.5%	These values are still in the process of being determined through building of historical records	
Pomegranate-Lemon sorbet with mixed Berry centre	Fresh, sweet mixed Berry combination	1.7%	28.6%		
Apple sorbet with Apple- Cinnamon centre	Fresh Apple tang with sweet Apple-Cinnamon combination	0.3%	22.3%		

### Dairy process parameters (for sorbet only, due to the dairy cream content)

UHT (ultra high temperature pasteurized) cream is treated with 1 <sup>st</sup> pasteurization of 1 second @ +90°C, followed by 2 <sup>nd</sup> pasteurization of 3 – 5 seconds @ +137 to +140°C. Once added to the sorbet base mix, the cream is further pasteurized for 30 seconds @ +88°C ±1°.
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### Microbiological standards (max tolerance)

<b>TPC</b> 50 000cfu/g	<b>Coliforms</b> 100cfu/g	<b>E.coli</b> Neg	<b>Y &amp; M</b> 1000cfu/g	<b>Staph. aureus</b> Nil	<b>Salmonella</b> Nil/25g
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### Resilience indicator

Product must be stored at -18°C or colder, as soon after purchase as possible. At ambient temperatures of +20°C or warmer, the product will melt within 20 minutes.
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### Shelf life guidelines

18 months when stored well sealed & at -18°C or colder without undue interference in the cold chain prior to storage
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**Allergen information**

These products contain dairy from cow's milk and have been produced on equipment which processes egg, wheat, milk & tree nuts, including coconut.

**Packaging**

<p><b>Sell unit inner tray (3 trays per sell unit)</b></p>	<p>3 tubes of the same flavour placed in a plastic, freezer resilient tray, sealed closed with a freezer resilient, clear plastic wrapper. Internal tray dimensions: 201 x 93 x 21 mm</p> <p><u>Markings on plastic wrapping:</u></p> <ul style="list-style-type: none"> <li>• Batch code, flavor and “contains dairy”</li> </ul>	
<p><b>Sell unit (12 sell units per master carton)</b></p>	<p>Printed, laminated cardboard carton consisting of 2 pieces (top over bottom). Internal dimensions of base: 293 x 202 x 26 mm. Outer dimensions of top: 300 x 214 x 31 mm</p> <p><u>Markings:</u></p> <ul style="list-style-type: none"> <li>• Brand logo</li> <li>• Description of contents (product list)</li> <li>• Storage guide</li> <li>• Serving suggestions (image)</li> <li>• Manufacturer's address</li> <li>• Brand website</li> <li>• Country of origin (included in manufacturer's address)</li> <li>• Barcode</li> <li>• Lot no.</li> <li>• Best before date. (format to be determined by customer)</li> </ul>	
<p><b>Master carton</b></p>	<p>White corrugated cardboard carton. Internal dimensions: 430 x 304 180 mm Outer dimensions: 433 x 307 x 185 mm</p> <p><u>Markings:</u></p> <ul style="list-style-type: none"> <li>• Brand logo</li> <li>• Product description</li> <li>• Keep frozen below -18°C (0°F)</li> <li>• Bar code</li> <li>• Manufacturer address</li> <li>• Company website address</li> <li>• Country of origin</li> <li>• Best Before date. (format to be determined by customer)</li> </ul>	

**Palletization** If required, to be determined by customer's needs & master carton dimensions

**Manufacturer's certification status**

The manufacturer holds the following current certification:  
FSSC 22000:2010  
Intertek-FSA Food Safety Systems certification  
Certificate of Acceptability for Food Premises (South African legislation)  
Halaal

Signed by customer: \_\_\_\_\_ Name: \_\_\_\_\_ (print)

Company Stamp: