

› SOLUTIONS FOR ICES

April, 2009

**What could be better than a delicious frozen dessert?**

There is not a better treat than ice cream. When buying an ice cream, appearance, color and flavor are the key drivers that influence purchase decision.

Whether you prefer plain milk or rather more exotic tropical fruit flavors, try our natural solutions. The color of your ice creams and sorbets will look perfectly unique!

Ask for our yellow and orange replacements for artificial colorants, or tell us about the color shade you want to achieve. We can recommend the perfect solution for your needs, with the subtle and appealing look of real fruits.

*ADD THE SPECIAL TOUCH OF OUR ORIGINAL  
CUSTOMIZED COLORS AND YOUR PRODUCTS  
WILL LOOK NATURALLY DELICIOUS*

Just tell us what you need! Our R&D professionals will give you a complete and unique customer support in your products' development.



A division of:



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Some examples of our catalog products



| Color* | Product               | Solubility | Physical Form | Typical Usage Level (g/ kg) | Stability |    |     | Certification |       | Legislation |    | Application |
|--------|-----------------------|------------|---------------|-----------------------------|-----------|----|-----|---------------|-------|-------------|----|-------------|
|        |                       |            |               |                             | Light     | T° | pH  | Kosher        | Halal | FDA         | EC |             |
|        | Biokrom Red QC 101    | WS         | L             | 0.2 - 1.0                   | E         | E  | >4  | -             | -     | ✓           | ✓  |             |
|        | Biokrom Red QC 201    | WS         | P             | 0.05 - 0.5                  | E         | E  | >4  | -             | -     | ✓           | ✓  |             |
|        | Biokrom Red QC 301    | WS         | L             | 0.5 - 2.0                   | E         | E  | <4  | -             | -     | ✓           | ✓  |             |
|        | Biokrom Red QC 601    | WD         | L             | 0.2 - 1.0                   | E         | E  | All | -             | -     | ✓           | ✓  |             |
|        | Novared QM 101        | WS         | L             | 0.2 - 1.0                   | E         | E  | All | -             | -     | ✓           | ✓  |             |
|        | Biokrom Orange QA 101 | WS         | L             | 0.2 - 1.0                   | E         | E  | < 4 | -             | -     | ✓           | ✓  |             |
|        | Exakrom Red QE 401    | WS         | P             | 0.5 - 2.0                   | G         | G  | < 4 | ✓             | ✓     | ✓           | ✓  |             |
|        | Vegared QB 201        | WS         | P             | 1.0 - 3.0                   | F         | F  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Exakrom QE 101        | WS         | P             | 0.2 - 1.0                   | G         | G  | <4  | -             | -     | ✓           | ✓  |             |
|        | Carokrom QT 101       | WS         | L             | 0.1 - 0.5                   | F         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Carokrom QT 201       | WS         | P             | 0.2 - 1.0                   | F         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Carokrom QT 501       | WD         | P             | 0.1 - 0.5                   | G         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Vegasan QH 201        | WS         | L             | 0.2 - 1.0                   | E         | E  | All | ✓             | ✓     | -           | -  |             |
|        | Bixakrom QN 801       | WS         | L             | 0.1 - 1.0                   | E         | E  | <4  | ✓             | ✓     | ✓           | ✓  |             |
|        | Bixakrom QN 201       | WS         | P             | 0.05 - 0.5                  | E         | E  | >4  | ✓             | ✓     | ✓           | ✓  |             |
|        | Bixakrom QN 701       | WS         | L             | 0.1 - 1.0                   | E         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Betakrom QR 801       | WS         | L             | 0.2 - 1.0                   | E         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Betakrom QR 601       | WD         | P             | 0.2 - 1.0                   | E         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Vegagreen Plus QU 201 | WS         | L             | 0.2 - 1.0                   | G         | G  | < 4 | ✓             | ✓     | -           | ✓  |             |
|        | Vegagreen QU 101      | WS         | L             | 0.2 - 1.0                   | G         | G  | >4  | ✓             | ✓     | -           | ✓  |             |
|        | Vegagreen QU 301      | WS         | P             | 0.2 - 1.0                   | G         | G  | >4  | ✓             | ✓     | -           | ✓  |             |
|        | Vegablue QG 101       | WS         | L             | 0.2 - 1.0                   | E         | E  | All | ✓             | ✓     | -           | -  |             |
|        | Caramel QK 101        | WS         | L             | 0.2 - 3.0                   | E         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Caramel QK 201        | WS         | L             | 0.2 - 5.0                   | E         | E  | All | ✓             | ✓     | ✓           | ✓  |             |
|        | Chocolate QS 1001     | WS         | L             | 0.2 - 5.0                   | E         | E  | All | -             | -     | ✓           | ✓  |             |
|        | Black QV 101          | WD         | L             | 0.2 - 2.0                   | E         | E  | All | ✓             | ✓     | -           | ✓  |             |

| Legend |                     |
|--------|---------------------|
| E      | = Excellent         |
| G      | = Good              |
| F      | = Fair              |
| WS     | = Water soluble     |
| OS     | = Oil soluble       |
| WD     | = Water dispersible |
| OD     | = Oil dispersible   |
| L      | = Liquid            |
| P      | = Powder            |

| Applications |                        |
|--------------|------------------------|
|              | Ice Creams             |
|              | Water ices or sorbetes |

\*These colors are the result of applying the product in a white base matrix at the typical usage level. Always remember to verify local legislation regarding restrictions in the use of these colorants.