



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### DHA 50% EE

| Code No. | SCN No. | CAS No.    | Effective Date | Product Manager | Written By | Rev. No. | Approved By |
|----------|---------|------------|----------------|-----------------|------------|----------|-------------|
| DH5KSL   | 1880    | 91051-05-7 | March 28, 2006 | MDS             | MDS        | No. 4    | TJK         |

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| <b>CHARACTERISTICS:</b> | Obtained from carefully selected fish oils previously checked on admissible low pesticide, PCB and heavy metal contaminations. Manufactured to close specifications ensuring a high degree of consistency via dense gas (CO <sub>2</sub> ) extraction/chromatography. This worldwide patented unique technology guarantees a product absolutely free of any toxic organic solvent residues. DHA 50% EE is a long chain fatty acid which is a colorless to slightly yellow, transparent liquid. It is slightly characteristic of fish in odor and taste. It is freely miscible with methanol, ethanol, acetone, diethyl ether, chloroform, hexane or cyclohexane, and practically insoluble in water or ethylene glycol. It is free of saturated fats. |
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| <b>SPECIFICATIONS:</b>  | DHA 22.6 N3)               | 50% min               |
|   | Acid value                 | 2.0 (mg KOH/g) max    |
|   | Absorbance at 233 nm       | 0.55 max              |
|   | Peroxide value             | 10 (meq/kg) max       |
|   | Anisidine value            | 20 max                |
|   | Bulk density at 20°C       | ~0.9g/cm <sup>3</sup> |
|   | PCB's *                    | 0.1 ppm max           |
|   | Dioxine*                   | 1.5 pg Teq/g max      |
|   | Pesticides*                | 1 ppm max             |
|   | Heavy metals (Cd, Hg, Pb)* | 0.1 ppm max           |
| <i>* Analysis on raw material<br/>meq/kg means milli-equivalents Oxygen per kg<br/>Teq are Toxic equivalents described by WHO</i> |                            |                       |

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| <b>PACKAGING:</b> | 25 or 190kg stainless steel drums, sealed under argon |
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| <b>APPLICATIONS:</b> | DHA is the predominant fatty material in the brain. It has been found to facilitate both brain and retina development in infants. Studies have shown that various mental disorders have been aided by higher intake of the fatty acid. It has also been known to lower serum cholesterol and improve cardiovascular performance. |
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| <b>OTHER:</b> | <ol style="list-style-type: none"><li>1) Because our product is minimum 50% DHA, usage levels can be 1/3 to 1/2 of products to gain the same effect.</li><li>2) There are no saturated acids or cholesterol in our product.</li><li>3) Produced under GMP conditions.</li><li>4) Manufactured from edible fish that do not originate from endangered species.</li><li>4) Produced from a patented, state of the art, solvent free process.</li><li>5) Very low taste and odor profile</li></ol> <p>Obtained from carefully selected fish oils previously checked for low pesticide, PCB and heavy metal contamination, which originated from sardine and anchovy caught in the cold water streams of the South Atlantic and South Pacific oceans.</p> |
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