



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

## SPECIFICATION SHEET

**DHA 70% EE**  
**With 0.2% Tocopherol**

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
DH7KSL	2248	91051-05-7	August 8, 2010	MDS	No. 7	TJK

<b>CHARACTERISTICS:</b>	Obtained from carefully selected fish oils previously checked on admissible low pesticide, PCB and heavy metal contaminations. It is 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 70% 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, diethylether, chloroform, hexane or cyclohexane, and practically insoluble in water or ethylene glycol. It is free of saturated fats.
-------------------------	--

<b>SPECIFICATIONS:</b>	DHA ethyl ester (22.6 N3)	70% min 660 mg/g min
	Acid value (mg KOH/g)	2.0 max
	Anisidine value	10 max
	Peroxide value (meq/kg)	3 max
	Totox AV+(2xPOV)	16
	Density @ 20°C (kg/l)	~0.9
	Dioxine*	1.0 pg Teq/g max
	Dioxine-like PCB's	2.0 pg Teq/g max
	PCB's*	0.01 ppm max
	Pesticides*	0.01 ppm max
	Heavy metals (Cd, Hg, Pb)*	0.1 ppm max
	* Analysis on raw material meq/kg means milli-equivalents Oxygen per kg Teq are Toxic equivalents described by WHO	

<b>PACKAGING:</b>	25 or 190 kg stainless steel drums, sealed under argon
-------------------	--



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: [www.aicma.com](http://www.aicma.com) Email: [info@aicma.com](mailto:info@aicma.com)

## SPECIFICATION SHEET

DHA 70% EE (continued)

Page 2

<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.
<b>ADVANTAGES:</b>	<ol style="list-style-type: none"><li>1) Because our product is a minimum 70% 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><li>6) 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.</li></ol>
<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	The retest-date is 2 years, but if stored correctly, it is stable for much longer. Storage should be in full, original sealed vessels, protected from light and oxygen. If it is opened, this must be done under inert gas protection (ideally argon). However if it was opened and then used later, we cannot guarantee the stability because we have no control over the handling after opening. Half-empty containers should not be used because the large amount of gas space in such a case could easily cause oxidation if the argon blanketing was not 100%.