

TECHNOLOGY OFFER

Company/Organisation Details

Company/ Organisation Name:	OLEOTEK inc.		
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Main Business Activities:	Applied research Technical assistance Analysis and testing Pilot production Training			
Year Established:	2001			
No of Employees:	11			
Legal Status (e.g. sole trader, private limited company, university)	Not-for-profit corporation			
Turnover:				<\$1M

TITLE	NEW DENDRIMER SURFACTANTS BASED ON VEGETABLE AND/OR ANIMAL OILS AND GREASES
ABSTRACT Brief description of the benefits of the technology including key technical or competitive advantages	THE PRESENT INVENTION PROVIDES A HIGHLY BRANCHED POLYGLYCEROL ESTERIFIED WITH DIFFERENT FATTY ACIDS. THE ESTERIFIED MOLECULE MAY BE INDUSTRIALLY MANUFACTURED AND PRESENT EXCELLENT SURFACTANT PROPERTIES. IN ADDITION, THE ESTERIFIED MOLECULE IS HIGHLY MODULABLE BY VARYING THE SUBSTITUTION OF THE FATTY ACIDS, ALLOWING THE AFFINITY FOR WATER AND OIL TO BE FINELY TAILORED FOR A SPECIFIC APPLICATION. THE ESTERIFIED MOLECULE ALSO HAS A VERY HIGH POWER OF EMULSION AND IS THUS A VERY POWERFUL SURFACTANT IN ADDITION TO BEING MODULAR.
NON CONFIDENTIAL TECHNICAL DESCRIPTION <i>(Min 100 Characters)</i> 1. Background 2. Description of product / process 3. What does the product or process do? 4. How does the product or process work? (without disclosing any confidential information) 5. Under what conditions does the product or process work? 6. What are the applications of the product or process? 7. Quantify claims if possible	<p>THE ESTERIFIED HYPERBRANCHED POLYGLYCEROL ARE ABLE TO EMULSIFY AN OIL-WATER MIXTURE AND MAINTAIN AN EMULSIFIED MIXTURE, RESISTING PHASE SEPARATION. THE USE OF THE PRODUCT AS A POWERFUL EMULSIFYING SURFACTANT ALSO ENABLES RELATIVELY SMALL QUANTITIES OF THE MOLECULE TO BE USED TO EMULSIFY AN OIL-WATER MIXTURE.</p> <p>THE SYNTHESIS OF THE PRODUCT INVOLVES A SO-CALLED "CLOSED CIRCUIT" MANUFACTURE OF THE ESTERIFIED MOLECULE, AS BOTH THE GLYCEROL MONOMERS FOR PRODUCING THE MOLECULE CORE AND THE FATTY ACIDS FOR ESTERIFYING THE CORE , ARE DERIVED FROM A COMMON SOURCE OF TRIGLYCERIDES.</p> <p>THE HYDROPHOBIC-HYDROPHILIC PROPERTIES OF THE ESTERIFIED HYPERBRANCHED POLYGLYCEROL MAY BE MODULATED BY MODIFYING THE DEGREE OF SUBSTITUTION OF THE ESTER GROUP. THIS ENABLES THE MOLECULE TO BE TAILORED EASILY AND EFFICIENTLY TO A PRE-DETERMINED LEVEL FOR A WIDE VARIETY OF DESIRED APPLICATIONS REQUIRING A GIVEN HYDROPHOBICITY.</p>

<p>INNOVATIVE ASPECTS <i>(Min 50 Characters)</i></p> <p>What are the innovative aspects in relation to existing products or processes? [Use details from patent application for example, if applicable.]</p>	<p>OLEOTEK DEVELOPPED A NEW NON IONIC SURFACTANT STRUCTURE WHOSE HYDROPHILIC-HYDROPHILIC BALANCE CAN BE FINELY MODULATED THROUGHOUT A WIDE RANGE OF HLB VALUES. IN ADDITION, FOR ANY GIVEN DESIRED HLB VALUE, THE SURFACTANT MOLECULE SHOWS ALWAYS THE SAME CHEMICAL STRUCTURE AND, CONSEQUENTLY, THE SAME PHYSICAL AND CHEMICAL PROPERTIES. ALSO, THE DEVELOPPED TECHNOLOGY CAN BE EASILY ADAPTED TO USE ANY SOURCE OF OLEOCHEMICAL RAW MATERIAL, NAMELY ALMOST ALL EXISTING ANIMAL AND VEGETABLE OILS AND GREASES.</p>	
<p>MAIN ADVANTAGES / BENEFITS <i>(Min 50 Characters)</i></p> <p>What are the advantages of the technology for the user in comparison to products / processes that are already on the market? What are the advantages for the partner?</p>	<p>THE SURFACTANT MOLECULE SHOWS ALWAYS THE SAME CHEMICAL STRUCTURE AND, CONSEQUENTLY, THE SAME PHYSICAL AND CHEMICAL PROPERTIES. IN ADDITION, THE DEVELOPPED TECHNOLOGY CAN BE EASILY ADAPTED TO USE ANY SOURCE OF OLEOCHEMICAL RAW MATERIAL, NAMELY ALMOST ALL EXISTING ANIMAL AND VEGETABLE OILS AND GREASES. ALSO, THE NEW PARTNER WILL HAVE THE RIGHT OF EXPLOITATION (NON-INFRINGEMENT) PRODUCTION AND COMMERCIALIZATION OF THE PRODUCT IN THE AMERICAN CONTINENT.</p>	
<p>CURRENT STAGE OF DEVELOPMENT</p>	<p><input checked="" type="checkbox"/> Development Phase <input type="checkbox"/> Available for demonstration <input type="checkbox"/> On the market</p>	
<p>INTELLECTUAL PROPERTY RIGHTS (IPR)</p>	<p><input checked="" type="checkbox"/> Patent Applied for but not yet Granted <input type="checkbox"/> Patent Granted <input type="checkbox"/> Copyright <input checked="" type="checkbox"/> Exclusive Rights <input checked="" type="checkbox"/> Know How <input type="checkbox"/> Others (Registered Design; Plant Variety Right etc)</p>	<p>Patent Number: US60/924,446</p> <p>Countries: US</p> <p>Comments:</p>
<p>MARKET APPLICATIONS Please specify/describe the particular market sectors in which this technology could be applied</p>	<p>SURFACTANTS, RHEOLOGIC MODIFIERS</p>	
<p>TYPE OF COLLABORATION SOUGHT <i>(please tick as many as apply)</i></p>	<p><input checked="" type="checkbox"/> License Agreement <input checked="" type="checkbox"/> Technical Co-operation <input checked="" type="checkbox"/> Joint Venture Agreement <input checked="" type="checkbox"/> Manufacturing agreement/Prototyping <input checked="" type="checkbox"/> Commercial Agreement with Technical Assistance <input checked="" type="checkbox"/> Financial Resources</p>	

<p>PARTNER PROFILE</p> <p>Type of partner sought, specific area of activity/size of partner, tasks to be performed etc.</p>	<p>Partner Qualification Criteria</p> <p>WE ARE NOW SEEKING PARTNERS TO BE INVOLVED IN THE FURTHER DEVELOPMENT AND LATER COMMERCIALIZATION OF THE PROCESS ACTUALLY PASSED FACE OF PROOF OF CONCEPT AND LAB-TESTED.</p>
	<p>Tasks to be Performed by Partner</p> <p>THE PARTNERS WILL BE INVOLVED IN THE INDUSTRIAL DEVELOPMENT THROUGH DIFERENT STEPS OF DEVELOPMENT (IMPROVING TECHNOLOGIES AND YIELDS, SCALING UP ...), THE PRODUCTION AND THE COMMERCIALIZATION IN THE AMERICAN CONTINENT.</p>
	<p>Support Provided by Your Organisation</p> <p>OLEOTEK WILL BE INVOLVED IN THE INDUSTRIAL CO-DEVELOPMENT FROM OUR KNOW-HOW, THE PATENT AND OUR R&D FACILITIES, BASED ON THE ANALYSIS OF THE COST OF THE DEVELLOPED TECHNOLOGY AND ITS TRANSFER.</p>