PROPUST	TYPE OF PROPUST	
PRODUCT	TYPE OF PRODUCT	
INFORMATION	00117411/41417	Spray insulation
	COMPANY NAME	lcynene
	PRODUCT/COLLECTION NAME	ICYNENE LD-R-50
	DESCRIPTION	ICYNENE LD-R-50™ is Icynene's next generation of high-performance
		spray insulation. ICYNENE LD-R-50™ is a renewable-based foam
		insulation and air barrier material that is responsibly made using castor oil
		and offers numerous environmental benefits for residential applications.
MATERIAL FEEDSTOCK	MATERIAL CONTENT	Castor oil has been used in place of a portion of the petroleum-based
		polyol. ICYNENE LD-R-50™ exceeds the minimum renewable
		requirement for a bio-based material (testing in accordance with ASTM D
		6866). Extracted from the castor plant, castor oil is a natural ingredient
		that is safe enough for use in personal care products such as lip balm.
		Production of the castor plant has low energy dependence and requires no pesticides, fungicides or man-made irrigation. The castor oil used for
		ICYNENE LD-R-50™ has a make-up which is extremely consistent year
		over year, from location to location and has a higher yield by weight
		(~40%) than soya oil (~17%).
	RECYCLED CONTENT %	0%
	RAPIDLY RENEWABLE CONTENT	Castor oil, almost 100%
	%	Castor oil facts
	/ 0	For every kilogram of castor oil produced in place of a petroleum-based
		polyol, there is a
		reduction of nearly 3.5 kilograms of Carbon Dioxide (CO2) from the
		atmosphere.
		Castor oil is 100% naturally filtered, with no chemical additives required.
		The estimated carbon dioxide absorption level of castor bean plants is
		34.6 tonnes per
		hectare, with two growing cycles per year (source:
		www.DoveBiotech.com)
		The castor oil used for ICYNENE LD-R-50TM has a yield (by weight) of
		~40% vs.
		• ~17% yield with soya oil.
		The castor oil used for ICYNENE LD-R-50TM is processed under the
		guidelines of the
		Responsible Care® Initiative (www.responsiblecare.org).
		The production process of the castor oil has low energy dependence,
		consisting simply of
		de-husking and pressing. Harvesting can be done manually.
		Castor crops are non-irrigated (relying only on natural rainfall), saving
		scarce water supplies.
		Castor crops do not require treatment with pesticides or fungicides.
		Castor crops do not compete with food crops, as they can be grown on
		marginal lands not
		competitive with food production lands.
		Castor beans are a rapidly renewable material, as per the U.S. Green Delition Occupation
		Building Council's
		(USGBC) definition, which requires a 10-year or shorter re-growth time
		frame. • A cradle-to-gate study commissioned by the Department of Energy
		A cradie-to-gate study commissioned by the Department of Energy (DOE) reported that
		there are essentially zero net greenhouse gas emissions from the
		production of the castor
		oil.
		Oil.
	HARMFUL ADDITIVES	Polyurethane?
	HARMFUL EMISSIONS	It is an Environmentally Preferable Product (CHPS EQ 2.2 Section 01350
		Compliant) that is 100% water-blown, free from HFCs and PBDEs.
	EMISSION STRENGTH OVER TIME	N/A
	TREATMENTS	None
MANUFACTURING	MANUFACTURING PROCESS	Manufactured
	HARMFUL EMISSIONS	Unknown
	LOCATION OF MANUF. PLANT	
	TESTS/CODES	ASTM D 6866
I		7.6.1 D 6500

	3RD PARTY CERTIFICATION	
INSTALLATION	INSTALLATION PROCEDURE	Spray insulation into walls and attic spaces before installing sheet rock
	INSTALLATION ADHESIVES	No adhesives
	UNIT COST	
	LIFE CYCLE ANALYSIS	Made of renewable materials, long life
	EXTRACTION	
	END OF SERVICE LIFE	Not recyclable
MISC. PROPERTIES	QUALITIES/PROPERTIES OF PRODUCT	Long lasting, mold and mildew resistant
	MISC. COMMENTS	-It insulates and air-seals in one step for maximum energy conservation while minimizing the environmental impactBy significantly reducing air leakage, ICYNENE LD-R-50™ contributes to a healthier, quieter and more comfortable indoor environment, while reducing energy consumption and related greenhouse gas emissions by as much as 50%.
	CONTRIBUTION TO LEED POINTS	EA may reduce energy bill by up to 50%
COMPANY PROFILE	GREEN PHILOSOPHY	Icynene delivers high-performance solutions for efficient building envelopes, thermal comfort and a healthy living environment – all of which are integral components of green building and design. Icynene can also contribute points/credits to LEED for Homes + the NAHB National Green Building Standard.
	CONTACT	http://www.icynene.com/ 1-800-758-7325 6747 Campobello Road Mississauga ON L5N 2L7 Canada
<u>MAINTENANCE</u>	AFTER INSTALLATION	N/A