Product Safety Assessment
Nexera™ Canola

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Names
• Nexera™ Canola
• Genuity® Roundup Ready® Canola
• Nexera Cleafield® Hybrid Canola

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Product Overview
• Nexera™ is Dow AgroSciences’ proprietary canola seed that are grown to produce canola grain. When processed, the grain produces oil with an Omega-9 oil profile (oleic acid >72%, reduced levels of linolenic acid <3%, and low in saturated fat <7%) and canola meal, including a higher protein, lower fiber meal called ProPound™, in some varieties. For further details, see Product Description.
• The omega-9 oil produced from Nexera canola grain is used for human consumption. The meal (both commodity and ProPound) are used in animal feed. For further details, see Product Uses.
• The majority of Nexera canola hybrids utilize an herbicide tolerance system (e.g., Roundup® or Clearfield®). Benefits to the grower are convenient and effective weed control that ultimately enhances yield potential for the canola. For further details, see Health Information.

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Manufacture of Product:
Product of conventional and/or modern plant breeding.

*See Health Information section for details regarding Herbicide Tolerant Traits.

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Product Description

The internationally regulated standard for canola is as follows: Seeds of the genus *Brassica* (*Brassica napus*, *Brassica rapa* or *Brassica juncea*) from which the oil shall contain less than 2% erucic acid in its fatty acid profile and the solid component shall contain less than 30 micromoles of any one or any mixture of 3-butenyl glucosinolate, 4-pentenyl glucosinolate, 2-hydroxy-3-butyl glucosinolate, and 2-hydroxy- 4-pentenyl glucosinolate per gram of air-dry, oil-free solid.¹

The product purchased by the growers is canola hybrid seed that contains the Nexera™ (omega-9) canola oil profile. The seed is grown to produce grain that is further processed (crushed) to produce Nexera canola oil and canola meal. In certain varieties, the canola meal produced will meet the ProPound™ product specifications.

Omega-9 oils made from Nexera canola have zero trans-fat, the lowest amount of saturated fats among oils, and feature more than 70 percent heart-healthy monounsaturated fat. The oil is a high stability canola oil which has elevated levels of oleic acid (>72%) and reduced levels of linolenic acid (<3%) and is low in saturated fat (<7%). Omega-9 oil is used for human consumption including cooking such as frying.

ProPound canola meal is an economical soybean meal replacement that is differentiated from commodity canola meal specifications having 20% higher protein, 10% higher energy and 25% less fiber. ProPound canola meal is well suited to swine and poultry feeding because of its higher nutrient density.

Product Uses

Nexera™ canola seed is used to produce canola grain that when crushed, will produce Omega-9 canola oil and canola meal. This unique oil profile (oleic acid >72%, reduced levels of linolenic acid <3%, and low in saturated fat <7%) offers desirable performance attributes for frying and processing food while maintaining a clean light flavor that does not interrupt the flavors of other food ingredients. Versatile in a wide variety of food applications, Omega-9 oils are healthier alternatives for restaurant use, consumer packaged goods and food manufacturing.

Canola meal is a by-product material that is produced in addition to oil when the grain is crushed. The meal is generally used as a protein source in animal feed. Some varieties of Nexera grain produce ProPound™ canola meal that has 20% higher protein, 10% higher energy and 25% less fiber than commodity canola meal. ProPound canola meal is well suited to swine and poultry feeding because of its higher nutrient density and higher inclusion rates.

Exposure Potential

Product of conventional and/or modern plant breeding.

*See Health Information section for details regarding Seed Treatments and Herbicide Tolerant Traits.

Health Information

Product of conventional and/or modern plant breeding.

**Seed Treatments**—Agricultural seeds, including Nexera™ canola hybrid seed, may be treated with insecticides and/or a fungicides, and these seed treatments can present certain health risks. These risks are associated with the seed treatments and not the Nexera canola hybrid seed. Consult the appropriate Safety Data Sheet (SDS) and/or label or tag for seed treatment hazard information, and wear all recommended personal protective equipment.

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Created:
October 11, 2015

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Herbicide Tolerant Traits—Some Nexera™ canola hybrid seed also have a trait that provides tolerance to herbicides such as glyphosate (e.g., Roundup® Ready). Consult the appropriate product information sheets for the safety profile and precautions associated with such traits.

Environmental Information

Product of conventional and/or modern plant breeding.

There is a potential that continued application of the same herbicide in subsequent rotations may lead to increased selection pressure for herbicide resistant weed populations. Therefore, Dow AgroSciences promotes and follows the program and weed resistant management practices provide by the herbicide-tolerant trait provider(s).

 Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of canola with an herbicide-tolerant trait and/or canola seed that is treated with an insecticide or fungicide. These regulations may vary by city, state/province, country or geographic region. Please review the product information for the product you are using.

Additional Information

- Nexera™ Canola Web Site (http://healthierprofits.ca/)
- Canola Council of Canada (http://www.canolacouncil.org/)

For more business information about Nexera™ Canola, visit Dow AgroSciences.

References

1 Codex Alimentarius (http://www.codexalimentarius.org/)

Form No. 233-01218-MM-1015
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