

## **Evaluation Report for Category B.2.1, B.3.2, B.3.10-S-N-EP application**

<b>Application Number:</b>	2006-0306
Application:	Cat B.2.1 (new guarantee), Cat B.3.2 (new application timing), Cat
	B.3.10 (new tank mix).
Product:	Express SG EUP
<b>Registration Number:</b>	28606
Active ingredients (a.i.):	Tribenuron-methyl 50%
PMRA Document Number	: 1395095

#### Background

Express SG EUP is a 100% repack of Express 50 SG MUP registered since October 25, 2005 (Reg. No. 28176) for manufacturing, formulating or repackaging. Express SG EUP is for use on weeds in fields planted with wheat, barley and summer fallow. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

#### **Purpose of Application**

The purpose of this application is to register a new stand-alone product, Express SG EUP, that must be applied in tankmix with 2,4-D Ester, and to include tank mixtures with Assert (Reg. No. 20567), Puma<sup>120</sup> Super (Reg. No. 25864), Banvel II (Reg. No. 23957), Everest 70 DF or Everest Solupack 70 (Reg. No. 26446 or 26448). These mixtures will be used for application to weeds in fields planted with wheat (spring and durum), spring barley or summer fallow when the crop is in growth stage period from 1 to 6 leaves (1-4 leaves on main stem, plus 2 tillers). The use pattern (application rates, number of applications, and use areas) on wheat, barley and summer fallow is consistent between the proposed and registered labels. These mixtures are for use in the Prairie provinces and the Peace River region of British Columbia.

#### **Chemistry Assessment**

A chemistry assessment was not required since there was no change to product chemistry.

#### **Health Assessments**

A toxicological health assessment was not required for this submission as the proposed product is a repackage of a previously registered product with the same percentage of the active ingredient.

Express SG EUP Herbicide is identical to Express 50 SG MUP Herbicide (Reg. No. 28176) and does not result in an increase in exposure to workers.



The personal protective equipment on the label includes the wearing of suitable chemical-resistant gloves and goggles or a face shield during mixing and loading.

To support the new tankmix concept consisting of SG Herbicide and 2,4-D Herbicide Low Volatile Ester which is called Express Pack SG, no new residue data were submitted. Tribenuron-methyl is already registered under the same use pattern in/on wheat and barley. Therefore, no increase in dietary exposure is anticipated.

The present request is also to add Everest 70 DF or Everest Solupak 70 as a tank mix partner to the Express Pack SG label for use on spring wheat. The proposed tank mix partner, flucarbazone (as flucarbazone-sodium at 66%), is registered on spring wheat at rates equivalent to or lower than the rates on the Express Pack SG label.

There is no evidence to suggest interactions and/or synergy between the two tank mix partners (tribenuron-methyl and flucarbazone) within the cereal crops since they have different modes of action. Accordingly, the disposition, translocation and magnitude of the residues of tribenuron-methyl is not expected to be affected when tank mixed with Everest 70 DF or Everest Solupak 70. No additional dietary risk from tribenuron-methyl is anticipated.

Following treatment according to the new tankmix Express Pack SG, residues of tribenuron-methyl will still be covered under the existing MRL of 0.05 ppm in/on wheat and barley.

Following the review of all available data, residues of tribenuron-methyl in wheat and barley treated at the seasonal rate of 7.5 g a.i./ha according to the Express Pack SG label will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

### **Environmental Assessment**

An environmental assessment of Express SG EUP for use on weeds in fields planted with wheat (spring and durum), spring barley or summer fallow when the crop is in growth stage period from 1 to 6 leaves (1-4 leaves on main stem, plus 2 tillers), was not required since the use pattern (application rates, number of applications and use areas) is the same as that currently registered. Thus, there will be no increase in environmental exposure. Environmental concerns have been mitigated through adequate statements on the product label.

### Value Assessment

Efficacy data were submitted from 37 field trials conducted in Manitoba, Saskatchewan, and Alberta during a 3 year period (2003-2005). Weed control was visually assessed following application of Express SG EUP in a tank mixture with 2,4-D Ester, 2,4-D Ester + Banvel II, or 2,4-D Ester + Puma<sup>120</sup> versus Express 75DF in a tank mixture with 2,4-D Ester, 2,4-D Ester + Banvel II, or 2,4-D Ester + Puma<sup>120</sup> for redroot pigweed, shepherd's purse, lamb's-quarters, Canada thistle, narrow-leaved hawk's-beard, flixweed, kochia, wild buckwheat, green foxtail, wild mustard, and stinkweed. It was concluded from these field trials that the efficacy of Express SG EUP in combination with 2,4-D, 2,4-D + Banvel II, or 2,4-D + Puma<sup>120</sup> Super is agronomically equivalent to that of the registered product of Express 75 DF in combination with the same tank mix partners.

Crop safety data were submitted from 28 field trials conducted in Manitoba, Saskatchewan, and Alberta during a 3 year period (2003-2005). Crop tolerance was assessed visually as crop injury (%) following application of Express SG EUP or Express 75DF in a tank mixture with 2,4-D, 2,4-D + Banvel II, 2,4-D + Assert, or 2,4-D + Puma<sup>120</sup> Super for spring wheat (15 trials), durum wheat (9 trials), and spring barley (8

trials). It was concluded from these field trials that the crop safety following the application of Express SG EUP in combination with 2,4-D, 2,4-D + Banvel II, 2,4-D + Assert, or 2,4-D + Puma<sup>120</sup> Super is agronomically equivalent to that following the registered Express 75 DF in combination with the same tank mix partners.

Express SG EUP in tank mix with 2,4-D Ester was concluded to be agronomically equivalent to Express 75DF in tank mix with 2,4-D Ester. Therefore, all listed uses for Express SG EUP can be supported from a value standpoint.

#### Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to register Express SG EUP applied with 2,4-D Ester and in combination with Assert, Puma<sup>120</sup> Super, Banvel II, Everest 70 DF or Everest Solupack 70.

#### References

List of Studies/Information Submitted by Registrant

- PARA # 1119132: Efficacy and crop tolerance of Express SG EUP and Express 75 DF and tank mixes in wheat and barley. E.I. du Pont Canada Company. Nov. 30, 2005. DACO 10.2.3.3 and DACO 10.3.2. pp 581.
- PARA # 1119133: All Inclusive Report. E.I. du Pont Canada Company. DACO 10.2.3.3 and DACO 10.3.2. pp 531.

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