

## Evaluation Report for Category B, Subcategory B.2.3 and 2.4 Application

**Application Number:** 2007-8095  
**Application:** Category B, Subcategory B2.3 (identity of formulants) and B.2.4 (proportion of formulants)  
**Product:** Nimble Herbicide  
**Registration Number:** 29467  
**Active ingredients (a.i.):** 50% thifensulfuron methyl and 25% tribenuron methyl  
**PMRA Document Number:** 1816226

### Purpose of Application

The purpose of this application was to register Nimble Herbicide, an end-use product containing the active ingredients, thifensulfuron methyl at 50% and tribenuron methyl at 25%, for post-emergence control of broadleaf weeds in wheat (spring, winter, and durum), spring barley, oats, and seedling and established grass species for forage and seed production. The product is intended for post-emergence application at 15 g a.i./ha in combination with certain broadleaf herbicides and non-ionic surfactant for broad spectrum weed control. The use directions for Nimble Herbicide, including the use patterns, application rates, application timings, tank mixtures, and restrictions, are identical to that of Refine Extra 75% Toss-N-Go Herbicide (Reg. No. 22575). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

### Chemistry Assessment

Nimble Herbicide is formulated as a wettable granule containing tribenuron-methyl and thifensulfuron-methyl at nominal concentrations of 25% and 50% respectively. This end-use product has a density of 0.669 g/mL. With the exception of the storage stability study and corrosion study that are currently in progress, the chemistry requirements for Nimble Herbicide are complete.

### Health Assessment

Nimble Herbicide is of low acute oral, dermal and inhalation toxicity. It is minimally irritating to the eyes and slightly irritating to the skin. It is not a potential sensitizer.

As the use directions for Nimble Herbicide are identical to the registered product Refine Extra 75% Toss-N-Go Herbicide, residues of tribenuron methyl and residues of thifensulfuron methyl in/on crops treated according to the use directions should therefore not increase. Accordingly, exposure of all population subgroups, including adults, infants and children, to residues of tribenuron methyl and to residues of thifensulfuron methyl should also not increase. Exposure to worker mixing/loading and applying or re-entering treated areas is also not expected to increase over the currently registered use patterns.

### Environmental Assessment

The formulants of Nimble Herbicide are not of environmental concern. Therefore no increase in environmental risk is expected.

### **Value Assessment**

Data from 6 field research trials conducted in Alberta (4 trials) and Saskatchewan (2 trials) in 2006 were submitted to support the registration of Nimble Herbicide. Treatments of Nimble Herbicide alone and in combination with Everest + 2,4-D Amine, Horizon, Lontrel + MCPA Ester, Puma Super, Assert + MCPA Ester, or Banvel II were directly compared to that of the cited precedent product Refine Extra Toss-N-Go Herbicide (Reg. No. 22575) alone and in combination with the same tank mix partners in these trials.

Control of wild oats, volunteer canola, lamb's-quarters, wild buckwheat, wild mustard, cleavers, green smartweed, narrow leaved hawks-beard, and kochia was visually assessed from 2 to 3 times during the growing season. Mean control of these weeds following the application of Nimble Herbicide alone or in combination with the representative tank mix partners was comparable to that for Refine Extra Toss-N-Go Herbicide alone and in combination with the same tank mix partners.

The tolerance of spring wheat (3 trials) and spring barley (3 trials) to Nimble Herbicide alone and in combination with the representative tank mix partners was visually assessed from 2 to 3 times during the growing season. Mean crop injury between the Nimble Herbicide based treatments, including Nimble Herbicide alone and in tank mixtures, and their corresponding Refine Extra based treatments was comparable. Data for final grain yield further supported the crop tolerance claim.

Therefore, all the weed and host claims, use partners, and tank mixtures on the Express Toss-N-Go Herbicide label are acceptable to appear on the Nimble Herbicide label.

### **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to support the registration of Nimble Herbicide.

### **Reference**

- PMRA # 1502311: Determination of stability to elevate temperature. DACO: 3.5.10. 2007.
- PMRA # 1502328: Chemistry requirements for the registration of manufacturing concentrates and end-use products formulated from registered technical grade of active ingredients or integrated system products. DACO: 3.0, 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.3. 2007.
- PMRA # 1502332: Chemistry requirements for the registered of manufacturing concentrates and end-use products formulated from registered technical grade of active ingredients or integrated system products. DACO: 3.5, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15. 2007.
- PMRA # 1543881: Nimble acute oral EPA DER. DACO: 3.7 CBI. 2008.
- PMRA # 1502289: Acute oral toxicity in the rat – up and down procedure. DACO: 4.6.1. 2006.

PMRA # 1502290: Acute dermal toxicity (limit test) in the rat. DACO: 4.6.2. 2006.

PMRA # 1502291: Acute inhalation toxicity (nose only) study in rat, DACO: 4.6.3. 2006.

PMRA # 1502293: Acute eye irritation in the rabbit, DACO: 4.6.4. 2007.

PMRA # 1502295: Acute dermal irritation in the rabbit, DACO: 4.6.5. 2007.

PMRA # 1502298: Acute dermal irritation in the rabbit, DACO: 4.6.6. 2006.

PMRA # 1502314, 1502316, 1502319, 1202321, 1202323, 1202325, and 1202356: Trial reports. Cheminova Inc. October 31, 2007. DACO: 10.2.3.3, 10.3.2

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