

## Evaluation Report for Category B, Subcategory 4.1 Application

**Application Number:** 2009-1312  
**Application:** Conversion to full registration  
**Product:** Cobra™ Crush MDT Wood Preservative  
**Registration Number:** 27553  
**Active ingredients (a.i.):** Boracic acid (boric acid), Disodium octaborate tetrahydrate, Copper as elemental (present as copper hydroxide)  
**PMRA Document Number :**1908207

### Purpose of Application

The purpose of this application was to convert the end-use product, Cobra™ Crush MDT Wood Preservative (Registration Number 27553), to full registration. Post-application worker exposure data (passive dosimetry and biological monitoring) and two confirmatory efficacy bioassays were required to satisfy the conditions of registration.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessment

A risk assessment for construction workers and others handling treated wood composite shows that levels of copper and boron are not a health concern, and can support the full registration of Cobra™ Crush MDT Wood Preservative for use as a biocide additive in the manufacturing of wood composites when used at a rate of 0.7 kg product per 100 kg of wood, adhesive and wax combined.

### Environmental Assessment

An environmental assessment was not required for this application.

### Value Assessment

The submitted information was sufficient to support full registration of Cobra™ Crush MDT Wood Preservative for use as a biocide additive in the manufacturing of wood composites process at a rate of 0.7 kg/100 kg of wood.

## Conclusion

The PMRA conducted an evaluation of the subject application and found the information sufficient to support full registration of Cobra™ Crush MDT Wood Preservative (Registration Number 27553).

## References

PMRA Document Number: 1743112

Reference: 2008, Response to efficacy deficiency (waiver and rationale), Data Numbering Code: 10.2.3.3

PMRA Document Number: 1743113

Reference: 2002, Resistance of OSB containing cobra crush fungicide/wood preservative to termite attack, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743115

Reference: Wall W; Prins C; Smart R, 2004, Efficacy and diffusibility of copper borate, Proceedings of the American Wood Preservers' Association, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743116

Reference: 2004, Framing stage treatments in the USA, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743117

Reference: Smart R; Wall W, 2006, Copper borate for the protection of engineered wood composites, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 05-50XXX, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743121

Reference: Morris P; Grace JK; Tsunoda K; Byrne A, 2003, Performance of borate-treated wood against *Reticulitermes flavipes* in above-ground protected conditions, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 03-30309, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743122

Reference: Smith WR; Lloyd J, 2004, Prevention of termite tubing over non-wood construction materials using glycol borate, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 04-30358, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743124

Reference: Grace JK; Oshiro RJ; Byrne T; Morris PI; Tsunoda K, 2000, Termite resistance of borate-treated lumber in a three-year above-ground field test in Hawaii, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 00-30236, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743125

Reference: Grace JK; Byrne A; Morris PI; Tsunoda, 2004, Six-year report on the performance of borate-treated lumber in an above-ground termite field test in Hawaii, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 04-30343, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743126

Reference: Grace JK; Byrne A; Morris PI; Tsunoda, 2006, Performance of borate-treated lumber after 8 years in an above-ground termite field test in Hawaii, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 06-30390, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743128

Reference: Dirol D; Guder J-P, 1989, Diffusion of fused borate rods in top ends of poles, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP/3518, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743130

Reference: Clausen CA; Yang VW, 2004, Multicomponent biocide systems protect wood from decay fungi, mold fungi, and termites for interior applications, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP 04-30333, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743135

Reference: Dirol D, 1988, Borate diffusion in wood from rods and liquid product application to laminated beams, The International Research Group on Wood Preservation, IRG Secretariat, Stockholm, Sweden, IRG/WP/3482, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743137

Reference: Johnson BR; Foster DO, 1991, Preservative loss from stakes treated with ammoniacal copper borate, Forest Products Journal 41(9): 37-38, Data Numbering Code: 10.2.3.3(e)

PMRA Document Number: 1743138

Reference: Johnson BR; Gutzmer DI, 1978, Ammoniacal copper borate: A new treatment for wood preservation, Forest Products Journal 28(2): 33-36, Data Numbering Code: 10.2.3.3(e)

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