

Borax

applied to freshly cut stumps to prevent
Heterobasidion Root Disease



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Topics

- Products available in California
- Application Information
- Regulations
- Licensing Information



Borax Pesticides Registered in California

- There are two products registered for use:
 - Sporax[®] – Wilbur-Ellis Company, EPA # 2935-501 (INACTIVE)
 - Cellu-Treat[®] – Nisus Corporation, EPA # 64405-8

Sporax[®]

- Sodium Tetraborate Decahydrate
- 25 pound bags (approx \$70 a bag)
- Apply to freshly cut stump surface ASAP
- Apply salt-shaker style
 - 1 lb/50 ft² stump surface



Sporax application

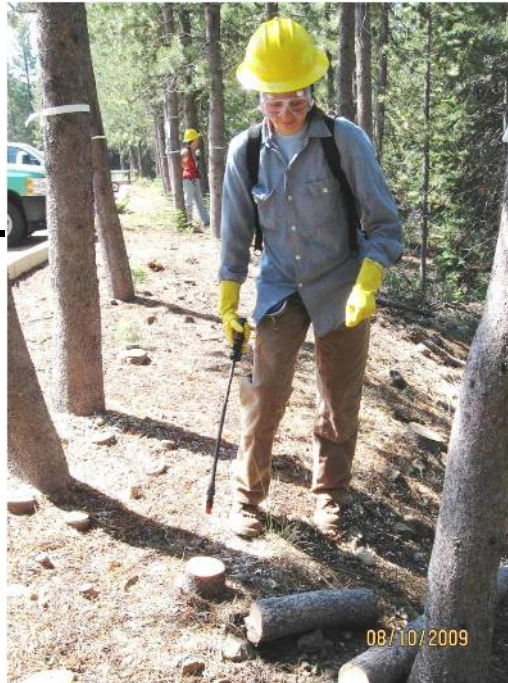
Notice PPE and
application rate



Cellu-Treat[®] DOT Wood Preservative

- Disodium Octaborate Tetrahydrate
- 25 pound pail (approx \$90 a pail)
- Apply to freshly cut stump surface ASAP
- Dissolved in water, applied as a liquid
 - Apply to wet the stump surface
- Available through internet (<http://nisuscorp.com/wood-preservation/timber-harvesting/>)

Cellu-Treat
application on
Plumas using back-
pack sprayer





USFS Treatment Standards

- FSM 2303 & FSH 3409.11 (and R5 supplement 3409.11-2010-1)
- Developed recreation areas and high value areas (seed orchards, giant Sequoia groves, etc.)
 - Treat all conifer stumps >3" outside bark diameter
- Eastside pine and mixed conifer
 - Treat all stumps >14" outside bark diameter
- Everywhere else
 - Decided by line officer
 - Use FHP pathologist recommendation





Sporax[®] and Cellu-Treat[®] are pesticides!

- Annual training for applicators
- Personal Protective Equipment
 - eye protection (Corrosive) from label
 - waterproof gloves (from label)
 - coveralls (Danger signal word) (Calif regs)
- Storage and Transport Requirements
 - Controlled access, signage, inventory, etc
 - Protected from weather, lockable, not with passengers, etc

Sporax[®] and Cellu-Treat[®] are pesticides!

- Service Containers
 - Product name, EPA reg number
 - Signal word
 - Name, address of responsible party
 - Not a food container!!!!
- Pesticide Use Reporting
 - Monthly to county
 - USFS enter into FACTS (activity code 8100)
- Operator ID Number



Examples of Sporax service containers



Borax and Licensing

- Not RUP, so QAL/QAC not required
- If applied incidental to harvesting, logger does not require a Pest Control Business License
- If applied by a separate contractor, requires a Pest Control Business License
- If applied by your employees, requires training meeting state req's
 - Annual, documented, correct trainer



Uneven application



Borax and NEPA

- PUAM 06-01
 - <http://www.fs.usda.gov/main/r5/forest-grasslandhealth/insects-diseases>
 - Discusses issues with borax
 - Good advice on NEPA and pesticides
- Borax National Risk Assessment
 - www.fs.fed.us/foresthealth/pesticide/risk.shtml
 - Completed February 2006
- Labels and MSDSs
- FS 2100-2 – Pesticide Use Proposal
- Spill plans, safety plans (water monitoring?)





So, you should
be able to
identify at least
three things
that are wrong
with this
picture

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Service, Bugwood.org



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Questions?

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