

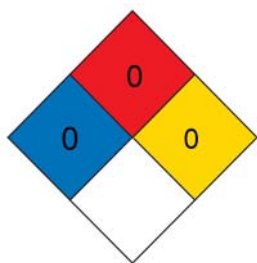
# MATERIAL SAFETY DATA SHEET

**Product Name:** Borrada LP Wood Preservative/Insect Control

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Insecticide and Fungicide  
PRODUCT DESCRIPTION: White powder  
EPA Registration Number: 39578-3-53883

MANUFACTURED FOR:  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX  
281-892-2500 (Mon-Fri, 8am-5pm)



EMERGENCY TELEPHONE NUMBER:  
CHEMTREC: 1-800-424-9300

## SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT	Typical %	CAS No.
Disodium octaborate tetrahydrate	40%	12280-03-4
Propylene glycol	40%	57-55-6
Other Non-hazardous Inert Ingredients	20%	

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

COMPONENT	HAZARD	OSHA PEL*	ACGIH TLV*
Disodium octaborate tetrahydrate	Not applicable	Not classified**	Not listed
Propylene glycol	Not applicable	Not classified**	Not listed

\*Exposure Limits 8 hrs. TWA

\*\***Occupational exposure limits:** Disodium octaborate tetrahydrate is treated by OSHA and Cal OSHA as a "Particulate Not Otherwise Classified" or "Nuisance Dust."

Cal OSHA/PEL: 10 mg/m<sup>3</sup>

OSHA/PEL (total dust): 15 mg/m<sup>3</sup>

OSHA/PEL (respirable dust): 5 mg/m<sup>3</sup>

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

Borrada LP is a translucent viscous liquid substance that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity.

### POTENTIAL HEALTH HAZARDS

**ROUTES OF EXPOSURE:** Dermal exposure is not usually a concern because Borrada LP is poorly absorbed through skin. Inhalation or ingestion is unlikely to occur in occupational use.

**EYE CONTACT** – Borrada LP is non-irritating to the eyes in normal use.

**SKIN CONTACT** - Borrada LP does not cause irritation or sensitization to intact skin.

**INGESTION** – Products containing disodium octaborate tetrahydrate are **not** intended for ingestion. Borrada LP has a low acute toxicity. Small amounts (e.g. a teaspoon) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

**CANCER**- Disodium octaborate tetrahydrate is not a known carcinogen.  
Propylene glycol is not a known carcinogen.

See Section 11 for additional toxicological information.

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## SECTION 4 - FIRST AID MEASURES

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**INHALATION:** Not intended for spray (mist) application.

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**EYES:** Use eye wash fountain or fresh water to cleanse the eye. If irritation persists for more than 30 minutes, seek medical attention.

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**SKIN:** Rinse with water. No further treatment necessary because non-irritating.

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**INGESTION:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

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## SECTION 5 - FIRE FIGHTING MEASURES

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**GENERAL HAZARD:** None, because Borrada LP is not flammable, combustible or explosive. The product itself is flame retardant.

**FLAMMABILITY CLASSIFICATION (29 CFR 1910.1200):** Non-flammable liquid.

**HAZARDOUS COMBUSTION PRODUCTS:** None.

**EXTINGUISHING MEDIA:** Any fire extinguishing media may be used on nearby fires.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**GENERAL:** Borrada LP is a translucent viscous liquid that may, at high concentrations, cause damage to trees or vegetation by root absorption. (Refer to Section 12 for ecological information.)

**LAND SPILL:**

**Large spill:** Dyke around spill as necessary. Absorb product with a clay-based absorbent. Remove absorbent and contaminated soil for disposal in accordance with applicable local regulations.

**Small spill:** Remove contaminated soil and place in containers for disposal in accordance with applicable local regulations.

Avoid contamination of water bodies during cleanup and disposal. Personal protective equipment is **not** needed to cleanup spills.

**SPILLAGE ONTO HARD SURFACES:** Limit area of spillage by barricading if necessary. Absorb product using a clay-based or other absorbent, and place absorbent into containers for disposal in accordance with applicable local regulations. Clean surface with water. [NOTE: Wood surfaces will not be harmed not present a future hazard after rinsing and drying.]

**SPILLAGE INTO WATER:** Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns to the boron value to its normal environmental background level.

Borrada LP is a non-hazardous waste when spilled or disposed of, as defined in the Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261). (Refer to Section 15 for additional regulatory information.)

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## SECTION 7 - HANDLING AND STORAGE

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### KEEP OUT OF REACH OF CHILDREN.

**HANDLING:** Borrada LP is a stable product. No special handling precautions are required.

**STORAGE:** No special storage conditions are required. Keep out of reach of children.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** None required.

**PERSONAL PROTECTION:** No special precautions required.

**Occupational exposure limits:** Disodium octaborate tetrahydrate is treated by OSHA and Cal OSHA as a "Particulate Not Otherwise Classified" or "Nuisance Dust."

Cal OSHA/PEL: 10 mg/m<sup>3</sup>

OSHA/PEL (total dust): 15 mg/m<sup>3</sup>

OSHA/PEL (respirable dust): 5 mg/m<sup>3</sup>

Dust is not expected to result from use of this liquid formulation.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** Liquid

**APPEARANCE:** Clear viscous liquid

**ODOR:** Odorless

**BULK DENSITY:** 10.76 lb/gal

**VAPOR PRESSURE (mm/Hg):** Negligible @ 20° C

**SOLUBILITY IN WATER:** 9.7% @ 20° C (based on disodium octaborate tetrahydrate)

34.3% @ 20° C (based on disodium octaborate tetrahydrate)

**MELTING POINT:** Not applicable

**pH @ 20° C:** 8.8

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## SECTION 10 - STABILITY AND REACTIVITY

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**CHEMICAL STABILITY (Conditions to avoid):** Stable

**INCOMPATIBILITY:** Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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The following information is available for the formulation:

<b>INGESTION:</b>	Oral LD50 (rat)	>5000 mg/kg
<b>ORAL:</b>	Dermal LD50 (rat)	>5000 mg/kg
<b>INHALATION:</b>	Inhalation LC50 (rat)	-Not respirable
<b>SENSITIZATION:</b>	Skin sensitization (guinea pig)	-Not considered a sensitizer
<b>IRRITATION:</b>	Primary eye irritation (rat)	-Minimal effects clearing within 24 hours
	Primary skin irritation (rat)	-Score: 0.1m-No irritation at 72 hours

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## SECTION 12 - ECOLOGICAL INFORMATION

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## EXOTOXICITY DATA

**General:** Boron (B) is the element in disodium octaborate tetrahydrate (Borrada LP) which is used by convention to report borate product ecological effects. It occurs naturally in seawater at an average concentration of 5 mg B/L and generally occurs in freshwater at concentrations up to 1 mg B/L. In dilute aqueous solutions the predominant boron species present is undissociated boric acid. To convert disodium octaborate tetrahydrate into the equivalent boron (B) content, multiply by 0.2096.

**Phytotoxicity:** Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants (e.g. grass and ornamentals) in high quantities.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL:** Consult state and local authorities for disposal guidelines.

**RCRA (40 CFR 261):** Borrada LP is not listed under any sections of the Federal Resource Conservation and Recovery Act (RCRA).

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## SECTION 14 – TRANSPORTATION INFORMATION

DOT Class: Not regulated  
UN Number: Not regulated

### PACKAGING

General description: 1 gal and 2.5 gal jugs; 10 gal pail; 1000 gal totes (mini-bulk)

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## SECTION 15 - REGULATORY INFORMATION

**U.S. FEDERAL REGULATIONS:** This product is registered with the EPA (EPA Reg. No. 39578-1-53883) in accordance with Section 3 of FIFRA, as a pesticide product.

**U.S. EPA TSCA Inventory:** 12008-41-2

**OSHA/Cal OSHA:** This MSDS document meets the requirements of both OSHA (29 CFR 1910.1200 and Cal OSHA (Title 8 CCR 5194(g)) hazard communication standards. Refer to Sections 2 and 8 for regulatory exposure limits.

**CHEMICAL INVENTORY LISTING:** Disodium octaborate tetrahydrate (Borrada LP), 12280-03-4, appears on several chemical inventory lists (including the EPA TSCA inventory, Canadian DSL, European EINECS, Japanese MITI, Australian and Korean lists) under the CAS No. representing the anhydrous form of this inorganic salt.

U.S. EPA TSCA Inventory	12008-41-2
Canadian DSL	12008-41-2
EINECS	234-541-0
South Korea	9312-3213

### SARA TITLE III DATA

**Sections 311 & 312 Hazard Categories:**

Immediate Health Hazard - No  
Delayed Health Hazard – No  
Fire Hazard – No  
Reactive Hazard – No  
Sudden Pressure Release Hazard - No

**Section 302 Extremely Hazardous Substances:** None

**Section 313 Toxic Chemicals:** None

**CERCLA/EHS Reportable Quantities (RQ):** None

**STATE REGULATIONS:**

**CALIFORNIA (Proposition 65):** None

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## SECTION 16 - OTHER INFORMATION

**MSDS Status:**

**Date of this Revision: July 13, 2005**  
**Date of Previous Revision: New MSDS**  
**Person Responsible for Preparation: Joe Blake**

**Reasons for Revision:** New product

**DISCLAIMER:**

This information is provided for the limited guidance to the user. While Control Solutions, Inc. believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

**ABBREVIATIONS:**

a.i.	Active Ingredient
ACGIH	American Conference of Governmental Industrial Hygienists
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
SARA	Superfund Amendments and Reauthorization Act
TSCA	Toxic Substances Control Act
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association