



“From hands-on professionals...For hands-on preservationists”

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TECHNICAL DATA

BOARD DEFENSE® 700-BD

(Insecticide, Termiticide and Fungicide)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Brand Name	BOARD DEFENSE®	Manufacturer	InCide Technologies, Inc.
Chemical Formula	Na ₂ B ₈ O ₁₃ H ₂ O	50 N. 41st Avenue	
Chemical Name/Synonyms	Disodium Octaborate Tetrahydrate	Phoenix, AZ 85009	
Chemical Family	Inorganic Borates	EMERGENCY PHONE NUMBERS	
CAS Registry No.	12280-03-4	CHEMTREC	800-424-9300
TSCA Inventory No.	12008-41-2 (anhydrous form)	INCIDE TECHNOLOGIES	602-233-0756
EPA Pesticide Reg. No.	44757-20	Effective date	January 1, 2009

SECTION 2 – TYPICAL PROPERTIES

The following properties are typical of normal production.

CHEMICAL ANALYSIS

		<u>Typical Analysis</u>
Sodium Oxide	(Na ₂ O)	14.2 %
Boron Oxide	(B ₂ O ₃)	67.3 %
Water of Crystallization	(H ₂ O)	17.6 %
Sulfate	(SO ₄)	600 ppm
Chloride	(Cl)	500 ppm
Iron	(Fe)	6 ppm

SCREEN ANALYSIS

<u>US Std. Sieve No.</u>	<u>Typical Percent Cumulative</u>
+200	8

BULK DENSITY, poured
31 lb/ft³

SECTION 3 – THEORETICAL PROPERTIES

The following properties are textbook theoretical data and are provided for convenience and reference only. These properties are not normally tested for the commercial product and no representation is made relative to the commercial product.

THEORETICAL COMPOSITION

		<u>Percent</u>
Boric Oxide	(B ₂ O ₃)	67.5 %
Sodium Oxide	(Na ₂ O)	15.0 %
Water of Crystallization	(H ₂ O)	17.5 %

pH Of Aqueous Solutions

Percent Na ₂ B ₈ O ₁₃ -4H ₂ O <u>By Weight Of Solution</u>	pH at <u>23oC(73.4oF)</u>
1	8.5
2	8.4
5	8.0
10	7.6
15	7.3

SOLUBILITY IN WATER AS Na₂B₈O₁₃-4H₂O

Temperature		<u>Percent By Weight Of Saturated Solution</u>
<u>°C</u>	<u>°F</u>	
0	32	5.0
10	50	10.2
20	68	14.8
30	86	22.8
40	104	26.7
50	122	33.4
60	140	42.1

SECTION 4 - APPLICATIONS

Insecticide, termiticide, and fungicide for control of wood destroying insects and rot. Mold control agent in cellulose insulation. Flame retardant and mold control agent in the paint industry. Flame and mold retardant for timber impregnation, and in ceramics and glass industry where a high B₂O₃ to Na₂O ratio is desired.

SECTION 5 – PACKAGING AND HANDLING

One pound bags. Information concerning the handling and use of this product is provided in a material safety data sheet (MSDS). This MSDS must be fully read and understood prior to any exposure, handling, or use of the product. Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.