Technical Data Sheet BOARD DEFENSE® (Insecticide, Termiticide and Fungicide)



SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Brand Name

BOARD DEFENSE®

Manufacturer

InCide Technologies, Inc.

Chemical Formula

Na₂B₈O₁₃4H₂O

50 North 41st Avenue

Chemical Name/Synonyms

Disodium Octaborate Tetrahydrate

Phoenix, AZ 85009

Chemical Family CAS Registry No.

Inorganic Borates 12280-03-4 EMERGENCY PHONE NUMBERS

CAS Registry No. TSCA Inventory No.

12280-03-4 12008-41-2 (anhydrous form) CHEMTREC 800-424-9300 INCIDE TECHNOLOGIES 602-233-0756

Effective date

January 1, 2018

EPA Pesticide Reg. No.

44757-20

SECTION 2 – TYPICAL PROPERTIES

The following properties are typical of normal production.

SCREEN ANALYSIS CHEMICAL ANALYSIS Typical Percent US Std. Typical Analysis Cumulative Sieve No. 8 14.2 % +200 Sodium Oxide (Na₂O) 67.3 % Boron Oxide (B₂O₃)(H₂O) 17.6 % Water of Crystallization 600 ppm **BULK DENSITY**, poured Sulfate (SO_4) 31 lb/ft³ Chloride (CI) 500 ppm 6 ppm Iron (Fe)

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 | | | SOLUBILITY IN WATER AS Na ₂ B ₈ O ₁₃ -4H ₂ O Temperature Percent by Weight Of | | |
|---|-----------------------|---------|---|------------|--------------------|
| | | Percent | , | ٥ <u>F</u> | Saturated Solution |
| Boric Oxide | (B_2O_3) | 67.5 % | <u>°C</u> 0 | 32 | 5.0 |
| Sodium Oxide | (Na ₂ O) | 15.0 % | 10 | 50 | 10,2 |
| Water of Crystallizati | on (H ₂ O) | 17.5 % | 20 | 68 | 14.8 |
| · | | | 30 | 86 | 22.8 |
| pH Of Aqueous Solutions | | 40 | 104 | 26.7 | |
| Percent Na ₂ B ₈ O ₁₃ -4H ₂ O | pH at | | 50 | 122 | 33.4 |
| By Weight Of Solution | 23°C (73.4°F) | | 60 | 140 | 42.1 |
| 1 | 8.5 | | | | |
| 2 | 8.4 | | | | |
| 5 | 8.0 | | | | |
| 10 | 7.6 | | | | |
| 15 | 7.3 | | | | |

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

45 pound (20.43 kg) multiwall plastic lined paper bags palletized and stretch wrapped. Fifty (50) bags per pallet. Also available in 25 lb. pails (48 pails/pallet) and one pound bottles (12 bottles/case, 42 cases/pallet). 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.

Replaces: January 1, 2016