

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DermaFlush
MANUFACTURER: Dermazoo, LLC
DIVISION: Veterinary
ADDRESS: 7387 Orangetown Lane, Boca Raton, FL 33433
EMERGENCY PHONE: (301) 365-0192
CHEMTREC PHONE: (800) 424-9300
OTHER CALLS: (661) 284-5200
FAX PHONE: 9301) 983-2369

CHEMICAL FORMULA: NaCl plus H3BO3
PRODUCT USE: Flush for dogs', cats', horses' skin, ears

SECTION 1 NOTES: Boric Acid has low acute oral and dermal toxicities

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: 9 g Sodium Chloride, 1 g Boric Acid i(Optibor) in packet to be mixed with 1 L of water

<u>CAS NO.</u>		<u>% WT</u>		
<u>% VOL</u>		<u>SARA 313 REPORTABLE</u>		
7647-14-5	NaCl	90%	(9 g) dry in each packet	0.9% in
1 liter	not listed			
10043-35-3	H3BO3	10%	(1 g) dry in each packet	0.1% in 1
liter	not listed			

OSHA PEL: 15 mg/m3 total dust, 5 mg/m3 respirable dust Boric Acid
CAL OSHA PEL: 10 mg/m3 Boric Acid
ACGIH TLV-TWA: 10mg/m3 Boric Acid

SECTION 2 NOTES: Product should be used according to manufacturer's directions

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
ROUTES OF ENTRY: Eye, Skin, Ingestion, Inhalation,
POTENTIAL HEALTH EFFECTS:
EYES: slightly irritating to the eye in dry form

SKIN: Does not cause irritation to intact skin, Boric Acid (Optibor) is poorly absorbed through intact skin

INGESTION: Not intended for ingestion. Small amounts of Boric acid swallowed accidentally are not likely to cause effects. Swallowing large amounts (greater than 1 tsp) may cause gastrointestinal upset.

INHALATION: At concentration >10 mg/m³, Boric Acid may cause mild irritation to the nose and throat

CHRONIC HEALTH HAZARDS: None Known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

CARCINOGENICITY: Boric Acid did not cause cancer in long-term animal studies and is not considered a carcinogen

SECTION 4: FIRST AID MEASURES

EYES: Wash with running water for at least 15 minutes. Seek medical attention if irritation persists

SKIN: Wash with water if irritation is present

INGESTION: Give 2 glasses of water if large amounts ingested and seek medical attention

INHALATION: Should not be a problem, but if symptomatic, remove to fresh air and seek medical attention

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Observation only is required for adult ingestion of less than 6 g Boric Acid, which would be 6 packets in dry form. Due to saltiness of the Sodium Chloride, the taste should be a deterrent from ingesting very much

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Neither Sodium Chloride nor Boric Acid is considered flammable
(% BY VOLUME) LOWER:

NFPA and HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 0
REACTIVITY: 0
OTHER:

Scale: 0 = Minimum 1 = Low 2 = Moderate 3 = High 4 = Extreme

EXTINGUISHING MEDIA: Any fire extinguishing media may be used

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: Non-combustible

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sodium chloride and boric acid at these low level should not be cause for alarm

SECTION 6 NOTES: If large amount spilled, prevent from entering drains or water source

SECTION 7: HANDLING AND STORAGE:

HANDLING AND STORAGE: No special handling precautions are required

OTHER PRECAUTIONS: Good housekeeping procedures should be followed

SECTION 7 NOTES: Special sensitivity: caking if exposed to moisture

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

VENTILATION : Use local exhaust ventilation to keep airborne concentrations of Boric Acid Optibor below permissible levels

RESPIRATORY PROTECTION: none needed if airborne concentrations don't exceed exposure limits

EYE PROTECTION: Not required

SKIN PROTECTION: Not required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None Needed

WORK HYGIENIC PRACTICES: Good housekeeping procedures should be followed

EXPOSURE GUIDELINES: Optibor is treated by OSHA, CAL OSHA and ACGIH as Nuisance Dust

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystals for Sodium Chloride in dry form, clear, colorless liquid in diluted form
White Powder for Boric Acid (Optibor) id dry form, clear colorless liquid in

diluted form

ODOR: None

PHYSICAL STATE: crystals in dry form, liquid in diluted form

pH AS SUPPLIED: after diluting with water, pH = 6.8 to 7.2

BOILING POINT:

F: approx 212°F
C: approx 100°C

MELTING POINT:

F: 340°F
C: 170.9°C

FREEZING POINT:

F: approx. 100°F
C: approx. 32°C

VAPOR PRESSURE (mmHg): N/A

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F:
C:

VAPOR DENSITY (AIR = 1): N/A

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SPECIFIC GRAVITY (H₂O = 1): specific gravity = 1.005 when diluted to 1 L

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F: 77°F
C: 25°C

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER: Very soluble

PERCENT SOLIDS BY WEIGHT: 90% (9 g) Sodium Chloride and 10% (1 g) Boric Acid in each packet

When packet is diluted to 1 L, Sodium Chloride is 0.9% and Boric Acid is 0.1%

PERCENT VOLATILE: None
BY WT/ BY VOL @

F:
C:

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

VISCOSITY: Water like when diluted

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F: 77°F
C: 25°C

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is considered stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Bromine trifluoride, Lithium

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Cumulative effects may result following exposure

SECTION 11 NOTES: Ingestion of large amounts of Boric Acid may produce health damage

LD50 oral rat: 2660 mg/kg for Boric Acid

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Large amounts of Boric Acid can be harmful to plants and other species

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Clean all spills immediately, If contents of packet spills, use broom and dustpan to clean while avoiding breathing in dust. If diluted form spills, contain and absorb spill with sand or other inert material. Dispose of in proper containers according to state, local and federal regulations. Considered an inert solid waste in accordance with state, local and federal regulations

RCRA HAZARD CLASS: Boric Acid i(Optibor) s not listed as a hazardous waste

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Boric Acid (Optibor) is not regulated by the U.S. Department of Transportation and therefore not considered a hazardous material

TDG Canadian Transportation: Boric Acid (Optibor) is not regulated under the Department of Dangerous Goods (TDG)

International Transportation: Boric Acid (Optibor) has no UN number and is not regulated under international rail, road, water or air transportation

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Boric Acid (Optibor) appears on the EPA TSCA Inventory list

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not Listed

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not Listed

311/312 HAZARD CATEGORIES: Not Listed

CA PROPOSITION 65: Boric Acid (Optibor) not listed

INTERNATIONAL REGULATIONS: The International Agency for research on Cancer (IARC) does not list Boric Acid as a carcinogen

OSH Carcinogen: Boric Acid (Optibor) not listed

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Prepared By Elaine Spear for DermaZoo

DISCLAIMER: This MSDS was prepared with the best knowledge of the health and safety information of the specified product and how to safely handle the specified product in your usage. No guarantee is expressed or implied regarding the accuracy of these data.

MATERIAL SAFETY DATA SHEET

FILE NO.: DZDF13 NAME OF PRODUCT DermaFlush

MSDS DATE: 8/5/2013