



Saif Zone-Sharjah, UAE.

## MATERIAL SAFETY DATA SHEET

<b>PRODUCT: BORIC ACID POWDER</b>	<b>Version No.:AMBAP/2015/024</b>
<b>SHELF LIFE: 36 MONTHS.</b>	<b>PACK SIZE: 100GM</b>

### 1. Product and Company Identification:

Trade name: **BORIC ACID POWDER.**

Product Use: For external use only.

Manufacturer identification: Ameya , Saif Zone-Sharjah, UAE.

### 2. Composition :

Boric acid            100 %

### 3. Hazards Identification :

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS:

Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY:

Classified Reproductive system/toxin/female, Reproductive system/ toxin/male [POSSIBLE]. The

substance may be toxic to kidneys, cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

### 4. First Aid Measures :

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.



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Serious Ingestion: Not available.

### 5. Fire Fighting Measures :

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: A mixture of potassium and boric acid may explode on impact. A mixture of boric acid and acetic anhydride will explode when heated to 58-60 C

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. Accidental Release Measures :

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Personal Precautions: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.



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### 7. Handling and Storage :

Handling (Personnel):

Do not get in eyes, skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing after use. Use only with adequate ventilation.

Handling (Physical Aspects) : Close container after each use.

Storage: Store in airtight container, in the dark. Keep container closed when not in use. Store at below 30°C. Keep from contact with oxidizing materials.

### 8. Exposure Controls/Personal Protection :

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

### 9. Physical and Chemical Properties :

Physical state and appearance: Solid. (Powdered solid.)

Odor: Odorless.

Taste: Bitter. (Slight.)

Color: White.

pH (1% soln/water): 5.2 [Acidic.]

Specific Gravity: 1.435 (Water = 1)

Dispersion Properties: See solubility in water, methanol.

Solubility: Soluble in hot water, methanol. Partially soluble in cold water. Very slightly soluble in acetone.



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### 10. Stability and Reactivity :

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: High temperatures, dust generation, incompatible materials.

Incompatibility with various substances: Reactive with alkalis.

Corrosivity: Not available.

Special Remarks on Reactivity: Incompatible with Potassium , Acetic Anhydride. Reacts with basic materials to form borate salts.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

### 11. Toxicological Information :

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 2660 mg/kg [Rat].

Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE]. May cause damage to the following organs: kidneys, cardiovascular system, central nervous system (CNS).

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects (fertility, fetotoxicity) based on animal studies. May affect genetic material. May cause teratogenic effects based on animal studies.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause skin irritation. May be absorbed through damaged or abraded skin in harmful amounts. If absorbed through skin it may affect behavior, sense organs, metabolism, the gastrointestinal tract, and the respiratory tract (respiratory depression) Eyes: Dust causes eye irritation. Inhalation: Dust causes respiratory tract irritation. Ingestion: Causes digestive (gastrointestinal) tract irritation with nausea, vomiting and diarrhea. May also affect behavior, brain, the Central Nervous System (depression, headache, dizziness,



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drowsiness, collapse, unconsciousness, coma), Peripheral Nervous System, cardiovascular system, blood, liver, urinary system (kidney, ureter, bladder) and endocrine system . Chronic Potential Health Effects: Boric acid can accumulate in the body (brain, bone) with repeated exposure. Prolonged or repeated skin contact may cause dermatitis. May cause borism characterized by dry skin, skin eruptions, and gastric disturbances.

### 12. Ecological Information :

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

### 13. Disposal Considerations :

Do not discharge into drains or the environment, deposit to an authorized waste collection point. Disposal should be in accordance with local, state or national legislation.

### 14. Transport Information:

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

IATA The product is not banned by IATA .

### 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Safety Assessment For this product a chemical safety assessment was not carried out Special

Provisions for Transport: Not applicable.

### 16. OTHER INFORMATION

Knowledge and on national and community regulations.



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It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof. It is recommended that the information contained in this safety data sheet is provided to the users, if necessary in an appropriate form.

This information relates to the specifically designated product and may not be valid in combination with any another product. The product must not be used for applications other than those specified in heading 1 without having first obtained written handling instructions.