

# SAFETY DATA SHEET

Magic Boric Acid Powder

Revision Date

8/19/2014

## SECTION - 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Magic Boric Acid Powder	PRODUCT USE	Heat Shield or Flux	ITEM	54.525
COMPANY NAME	Grobet File Company of America, LLC	Office	201-939-6700		
	750 Washington Avenue	Fax	201-939-5067		
	Carlstadt NJ 07072				
EMERGENCY TELEPHONE NUMBER		ChemTel	(800) 255-3924		

## SECTION - 2 HAZARDS INFORMATION



Acute Toxicity  
Irritant (skin and eye)  
Narcotic Effects  
Respiratory Tract Irritant



Reproductive Toxicity

**WARNING!** Causes eye irritation, Causes skin irritation, Harmful if inhaled, May cause dizziness or drowsiness, Harmful if swallowed, Do not smoke, eat or drink while using, handling or transferring this product, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release to the environment, KEEP OUT OF REACH OF CHILDREN

**WARNING!** Suspected of damaging fertility or the unborn child

## SECTION - 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret.)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Boric Acid	Ortho-Boric Acid, Boracic Acid	10043-35-3		60 - 100%

## SECTION - 4 FIRST AID MEASURES

**EYE CONTACT** Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists obtain immediate medical attention, preferably from an ophthalmologist.

**SKIN CONTACT** Wash contaminated skin with plenty of soap and water. Remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical attention.

**INHALATION** Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention.

**INGESTION** DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs.

**Aspiration Hazard** Not considered to be an aspiration hazard

### ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

**Eyes** Causes eye irritation, redness, tearing

**Skin** May cause skin irritation, redness, burning

**Inhalation** Harmful if inhaled, Dust can cause irritation, to nose, throat or mucus membranes, Can cause, headache, coughing, dizziness, drowsiness

**Ingestion** Harmful if swallowed, Can cause irritation, of the mouth, throat, stomach, and gastrointestinal tract

### CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

**Eyes** Can cause serious eye irritation, redness, tearing, pain

**Skin** Can cause serious skin irritation, redness, burning, or allergic skin reaction

**Inhalation** Harmful if inhaled, Dust can cause severe irritation, to nose, throat, mucus membranes or respiratory tract, Symptoms may include, headache, coughing, wheezing, breathing difficulties, dizziness, drowsiness, May affect, respiratory system, reproductive organs, central nervous system, kidneys

**Ingestion** Harmful if swallowed, Can cause severe irritation, of the mouth, throat, esophagus, stomach, and gastrointestinal tract, Ingestion can affect, kidneys, reproductive organs, respiratory system, central nervous system

**SECTION – 5 FIRE FIGHTING MEASURES**

<b>Extinguishing Media</b>	Not flammable: Use extinguishing media for surrounding fire
<b>Hazardous Decomposition</b>	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, boron oxides, and other toxic fumes
<b>Reactive With</b>	Incompatible with, strong oxidizing agents, strong bases, potassium
<b>Explosion Hazards</b>	Can react with metals and release hydrogen gas
<b>Static Discharge</b>	Not applicable
<b>Mechanical Impact</b>	Not applicable
<b>Protective Equipment</b>	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

<u>FLAMMABLE LIQUIDS HAZARD CLASSIFICATION</u>	
Criteria	Flash point > 93.3°C (200°F)
NFPA Class	III B
GHS	Not applicable
WHMIS	Not applicable

NFPA HAZARD	RATINGS
Health	2
Flammability	0
Reactivity	0
Personal Protection	FBG

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Warn personnel of spill
<b>Personal Precautions</b>	Ventilate area
<b>Protective Equipment</b>	Safety Glasses, Gloves, Dust Respirator
<b>Containment</b>	Prevent spill from spreading or entering the environment
<b>Clean Up Procedures</b>	Avoid creating dust. Sweep up material and place in a disposal container. Mop area with clean water
<b>Disposal</b>	Dispose of material in accordance with all State and Federal Guidelines and Regulations

**SECTION – 7 HANDLING AND STORAGE**

<b>Handling</b>	Use appropriate safety equipment. Avoid eye and skin contact. May be harmful if inhaled. Harmful if swallowed. Avoid release to the environment
<b>Storage</b>	Keep container closed when not in use and store away from incompatible materials, KEEP OUT OF REACH OF CHILDREN
<b>Incompatible Materials</b>	Incompatible with, strong oxidizing agents, strong bases, alkaline earth metals, potassium

**SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Boric Acid	2 mg/m3	6 mg/m3	10 mg/m3	5 mg/m3	

PERSONAL PROTECTIVE EQUIPMENT



Chemical Safety Glasses, Goggles or Face Shield



Impervious Chemical Gloves



Dust Mask



Eye Wash (Recommended)



Ventilation

Ventilate to keep dusts of this material below the lowest ppm listed above. If over Threshold Limit Value use NIOSH approved High-efficiency particulate respirator with full facepiece.

HMIS HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	E

**SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES**

Flash Point	NA	Specific Gravity / Relative Density	1.435
Flammable Limits	ND	Molecular Weight	ND
Auto-Ignition Temp.	ND	Initial Boiling Point	ND
Physical State	Solid	Boiling Range	ND
Appearance	White Powder	Vapor Pressure	ND
Odor	Odorless	Vapor Density	ND
Odor Threshold	ND	Freeze Point	ND
Solubility	< 5%	Melting Point	ND
Volatiles	< 1%	Partition Coefficient	ND
VOC	< 1%	Decomposition Temperature	ND
pH	5.1 (1% Solution)	Evaporation Rate	ND

**SECTION – 10 STABILITY AND REACTIVITY**

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49°C (120°F)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, alkaline earth metals, potassium
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, boron oxides, and other toxic fumes

**SECTION – 11 TOXICOLOGICAL INFORMATION****ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes "Dust")

**ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes	Causes eye irritation, redness, tearing
Skin	May cause skin irritation, redness, burning
Inhalation	Harmful if inhaled, Dust can cause irritation, to nose, throat or mucus membranes, Can cause, headache, coughing, dizziness, drowsiness
Ingestion	Harmful if swallowed, Can cause irritation, of the mouth, throat, stomach, and gastrointestinal tract

**CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**

Eyes	Can cause serious eye irritation, redness, tearing, pain
Skin	Can cause serious skin irritation, redness, burning, or allergic skin reaction
Inhalation	Harmful if inhaled, Dust can cause severe irritation, to nose, throat, mucus membranes or respiratory tract, Symptoms may include, headache, coughing, wheezing, breathing difficulties, dizziness, drowsiness, May affect, respiratory system, reproductive organs, central nervous system, kidneys
Ingestion	Harmful if swallowed, Can cause severe irritation, of the mouth, throat, esophagus, stomach, and gastrointestinal tract, Ingestion can affect, kidneys, reproductive organs, respiratory system, central nervous system Exposure may cause, adverse reproductive effects, infertility
Target Organs	Kidneys, Respiratory Tract, Eyes (Lens or cornea), Skin, Central Nervous System, Reproductive Organs
Medical Conditions	Preexisting, skin, kidney, central nervous system, respiratory, disorders may be aggravated by exposure to this product
Notes to Physician	In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

**CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
None Listed				

**MUTAGENIC AND TERATOGENIC EFFECTS – May cause fetal and reproductive abnormalities.**

CHEMICAL NAME	Mutagenic	Teratogenic	Developmental	GHS Category
Boric Acid		Yes		

**SECTION – 11 TOXICOLOGICAL INFORMATION - CONTINUED****ACUTE TOXICITY**

<u>ACUTE TOXICITY</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Boric Acid	LD50	Dermal	Rabbit	> 2000 mg/kg		5 (>2000 mg/kg)
	LD50	Oral	Rat	2660 mg/kg		5 (>2000 mg/kg)

**SECTION – 12 ECOLOGICAL INFORMATION**

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Boric Acid	LC50	Colorado squawfish	(Ptychocheilus lucius)	> 100 mg/L	96 Hour	4 (>100 mg/L)
	EC50	Water flea	(Daphnia magna)	133 mg/L	48 Hour	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	> 1021 mg/L	96 Hour	4 (>100 mg/L)
	LC50	Colorado squawfish	(Ptychocheilus lucius)	279 mg/L	96 Hour	4 (>100 mg/L)

**Persistence And Degradability** Not readily degradable

**Bioaccumulative Potential** No data available

**Mobility In Soil** Expected to have low mobility in soil

**Other Adverse Effects** No data available

**SECTION – 13 DISPOSAL CONSIDERATIONS**

**DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER**  
**Dispose of any waste in accordance with all State and Federal Guidelines and Regulations**

**ENVIRONMENTAL FATE**

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly permitted facilities.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

**SECTION – 14 TRANSPORT INFORMATION****D.O.T. CLASSIFICATION**

<u>UN Number</u>	<u>Proper Shipping Name</u>				
Not Regulated	Non Hazardous – Compounds Cleaning Solid				
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lbs)</u>	<u>Response Code</u>	<u>Marine Pollutant</u>
None	PG III	None	None	154	No

**SECTION – 15 REGULATORY INFORMATION****TSCA**

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Boric Acid	Yes			

**REPORTABLE QUANTITIES**

CHEMICAL NAME	Extremely Hazardous EPCRA TPQ Sec 302	Reportable Quantity EPCRA RQ Sec 304	Emission Reporting CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
None Listed						

**SARA**

CHEMICAL NAME	Section 311			Section 311 / 312 Hazards			
	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive	
Boric Acid	Yes	Yes	Yes				

**RIGHT TO KNOW**

CHEMICAL NAME	STATE												
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Boric Acid						Yes		Yes					

**CALIFORNIA**

WARNING! This product contains chemicals known to the state of California to cause:						
CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental	
None Listed						

**CLEAN AIR WATER ACTS**

CHEMICAL NAME	CAS #	Clean Air Acts			Clean Water Acts		
		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
None Listed							

**INTERNATIONAL REGULATIONS** – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Boric Acid	Yes	Yes	Yes	Yes	Yes	Yes

**WHMIS Classification**

CHEMICAL NAME	DSL	Class	Description
Boric Acid	Yes	D-2A	Materials Causing Other Toxic Effects; Very Toxic Material

**DSCL (EEC)**

Code	Definition (R-Phrases / S-Phrases)
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R63	Possible risk of harm to the unborn child
S2	Keep out of the reach of children
S9	Keep container in a well-ventilated place
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S38	In case of insufficient ventilation wear suitable respiratory equipment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S20/21	When using do not eat, drink or smoke
S24/25	Avoid contact with skin and eyes
S29/35	Do not empty into drains; dispose of this material and its container in a safe way
S3/14	Keep in a cool place away from ... (incompatible materials to be indicated by the manufacturer)
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

**SECTION – 16 OTHER INFORMATION**

<b>SDS</b>	<b>Legend Description</b>		
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	<b>LD50</b>	Dose that is lethal to 50% of a given species by a given route of exposure
<b>CAS</b>	Chemical Abstracts Service Registry	<b>LEL</b>	Lower Explosive Limit
<b>CEIL</b>	Ceiling Limit (15 minutes)	<b>NA</b>	Not Applicable
<b>CERCL</b>	Comprehensive Environmental Response, Compensation, and Liability Act	<b>ND</b>	Not Determined
<b>EPA</b>	Environmental Protection Agency	<b>NE</b>	Not Established
<b>FBG</b>	Full Bunker Gear	<b>NFPA</b>	National Fire Protection Association
<b>HAP</b>	California Hazardous air pollutant Clean Air Act	<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>HMIS-A</b>	Safety Glasses	<b>NTP</b>	National Toxicology Program
<b>HMIS-B</b>	Safety glasses, gloves	<b>OSHA</b>	Occupational Safety and Health Administration
<b>HMIS-C</b>	Safety glasses, gloves, chemical apron	<b>PEL</b>	Permissible Exposure Limit (OSHA)
<b>HMIS-D</b>	Face shield, gloves, chemical apron	<b>PP</b>	California Priority Pollutant under the Clean Water Act
<b>HMIS-E</b>	Safety glasses, gloves, dust respirator	<b>REL</b>	Recommended exposure limit (NIOSH)
<b>HMIS-F</b>	Safety glasses, gloves, chemical apron, dust respirator	<b>SARA</b>	Superfund Amendments and Reauthorization Act
<b>HMIS-G</b>	Safety glasses, gloves, vapor respirator	<b>STEL</b>	Short Term Exposure Limit (15 minutes)
<b>HMIS-H</b>	Splash goggles, gloves, chemical apron, vapor respirator	<b>TC Lo</b>	Air concentration that is lethal to 50% of a given species in a given time
<b>HMIS-I</b>	Safety glasses, gloves, dust and vapor respirator	<b>TD Lo</b>	Lowest dose that is toxic to a given species
<b>HMIS-J</b>	Splash goggles, gloves, chemical apron, dust and vapor respirator	<b>TLV</b>	Threshold Limit Value (ACGIH)
<b>HMIS-K</b>	Air line hood or mask, gloves, full chemical suit, boots	<b>TP</b>	California Toxic Pollutant under the Clean Water Act
<b>HMIS-X</b>	Ask Supervisor	<b>TSCA</b>	Toxic Substances Control Act
<b>HS</b>	California Hazardous Substance under the Clean Water Act	<b>TWA</b>	Time Weighted Average (8 hours)
<b>IARC</b>	International Agency for Research on Cancer	<b>UEL</b>	Upper Explosive Limit
<b>LC50</b>	Air concentration that is lethal to 50% of a given species in a given time	<b>WHMIS</b>	Worker Hazardous Materials Information System (Canada)

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**Supersedes Safety Data Sheet Dated**