



Item 510-919 SAFETY DATA SHEET

Magic Boric Acid Powder

Revision Date 4/21/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Magic Boric Acid Powder	PRODUCT USE	Flux and Deoxidizing Agent	ITEM	993
COMPANY NAME	Magic Cast Products	Office	(870) 330-4061		
	3500 Tennessee Road	Fax	(870) 330-4065		
	Texarkana AR 71854	Web	www.magiccastproducts.com		
	EMERGENCY TELEPHONE NUMBER	INFOTRAC	(800) 535-5053		

SECTION – 2 HAZARDS INFORMATION

PHYSICAL HAZARDS None
HEALTH HAZARDS EYES-Category 2B; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3; REPRODUCTIVE-Category 2



Irritant (skin and eye)
Narcotic Effects
Respiratory Tract Irritant



Reproductive Toxicity

WARNING! Causes eye irritation, Causes skin irritation, Harmful if swallowed, May cause respiratory irritation and/or drowsiness or dizziness, Do not get in eyes, on skin, or clothing, and avoid inhalation of dust, Do not smoke, eat or drink while using, handling or transferring, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment
 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 Can cause 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 Causes eye irritation, redness, tearing, pain

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

Inhalation Harmful if inhaled, Dust can cause serious irritation, to nose, throat, mucus membranes or respiratory tract, Symptoms may include, headache, coughing, wheezing, asthmatic 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

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

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION	
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

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

SECTION – 7 HANDLING AND STORAGE

Handling	Keep away from incompatible materials, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Avoid inhalation of dust, May cause respiratory irritation and/or drowsiness or dizziness, Harmful if swallowed, Do not allow smoking and food consumption while handling, Wash thoroughly after handling, Avoid release to the environment
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, alkaline earth metals, potassium

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS						Significant Exposure
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)		
Boric Acid	2 mg/m ³	6 mg/m ³	10 mg/m ³	5 mg/m ³		

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 a MSHA / 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 (± 0.3)	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	Can cause 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	Causes eye irritation, redness, tearing, pain
Skin	Can cause skin irritation, redness, burning, or allergic skin reaction
Inhalation	Harmful if inhaled, Dust can cause serious irritation, to nose, throat, mucus membranes or respiratory tract, Symptoms may include, headache, coughing, wheezing, asthmatic 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

Acute Tox Calculated Oral: 2,660 mg/kg Dermal: 2,001 mg/kg Inhaled: mg/L

Acute Tox Category "Not applicable (Oral > 2,000 mg/kg)", "Not applicable (Dermal > 2,000 mg/kg)", "No data available (Inhaled)"

Additional Info 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:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
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None Listed

MUTAGENIC AND REPRODUCTIVE EFFECTS – May cause fetal and reproductive abnormalities.

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
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Boric Acid

2 (Warning, Suspected of damaging fertility or the unborn child)

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

<u>CHEMICAL NAME</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	> 2,000 mg/kg		(>2000 mg/kg)
	LD50	Oral	Rat	2,660 mg/kg		(>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	Squawfish	(Ptychocheilus lucius)	279 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	133 mg/L	48 Hours	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	> 1021 mg/L	96 Hours	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 STORM 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> <u>n.o.s. (Chemicals) or "Limits"</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

CHEMICAL NAME	CAS #	WARNING! This product contains chemicals known to the state of California to cause:			
		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

Standard Risk And Safety Phrases

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
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

SDS	LEGEND DESCRIPTION		
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NFPA	National Fire Protection Association
EPA	Environmental Protection Agency	NIOSH	National Institute for Occupational Safety and Health
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE	Not Established
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous air pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety Glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Air concentration that is lethal to 50% of a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)
KD	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit

Magic Cast Products

and nCites, L.L.C. have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

Supersedes Safety Data Sheet Dated

12/23/2014