



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION AND USE

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<b>PRODUCT IDENTIFIER:</b>	Borax		
<b>PRODUCT USE:</b>	Fertilizer	<b>SUPPLIER'S NAME:</b>	Same as manufacturer
<b>MANUFACTURER'S NAME:</b>	Agrisol Manufacturing Inc	<b>ADDRESS:</b>	Same as manufacturer
<b>ADDRESS:</b>	220 – 7565, 132 Street Surrey, BC, V3Z 1K7, Canada		
<b>IN CASE OF EMERGENCY:</b>	1(604)805-2417		

## SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Borax	12179-04-3	LD <sub>50</sub> (oral rat) 2000 mg/Kg

## SECTION 3 – PHYSICAL DATA

<b>PHYSICAL STATE:</b>	Crystalline Solid	<b>ODOUR &amp; APPEARANCE</b>	Odourless white crystalline
<b>BOILING POINT</b>	NAV	<b>VAPOUR PRESSURE (mmHg): @20oC</b>	Negligible @ 20°C
<b>VAPOUR DENSITY (air=1):</b>	NAV	<b>RELATIVE DENSITY @20°C</b>	NAV
<b>pH:</b>	9.3(3% Solution)	<b>EVAPORATION RATE:</b>	NAP
<b>FREEZING/MELTING POINT (°C)</b>	200 °C/392°F	<b>SOLUBILITY (in water):</b>	3.8% @ 20 °C; 51.2% @ 100°C
<b>BOILING RANGE</b>	NAP		

## SECTION 4 – FIRE AND EXPLOSION DATA

<b>FLAMMABLE:</b>	This product is not flammable. It is a flame retardant.		
<b>IF YES, UNDER WHAT CONDITIONS?</b>	-		
<b>MEANS OF EXTINCTION:</b>	Use media appropriate for surrounding fire and/or materials.		
<b>FLASHPOINT (°C) &amp; METHOD:</b>	NAV	<b>AUTOIGNITION TEMPERATURE (°C)</b>	NAP
<b>LOWER FLAMMABLE LIMIT (% by volume):</b>	NAP	<b>UPPER FLAMMABLE LIMIT (% by volume):</b>	NAP
<b>SENSITIVITY TO IMPACT:</b>	NAV-Not expected to be sensitive to mechanical impact..	<b>SENSITIVITY TO STATIC DISCHARGE:</b>	NAV-Not expected to be sensitive to static discharge.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	NAV		

## SECTION 5 – REACTIVITY DATA

<b>CHEMICAL STABILITY:</b>	Stable under normal conditions.
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<b>INCOMPATIBILITY:</b>	Reaction with strong reducing agents, such as metals hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.	<b>CORROSIVE BEHAVIOUR:</b>	NAV
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<b>REACTIVITY AND UNDER WHAT CONDITIONS:</b>	Keep away from: heat sources, combustible material, reducing agents, organic material.
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<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None anticipated
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## SECTION 6 – TOXICOLOGICAL PROPERTIES

### ROUTES OF ENTRY:

<b>SKIN CONTACT:</b>	Yes	<b>SKIN ABSORPTION:</b>	Not likely	<b>EYE CONTACT:</b>	Yes	<b>INHALATION:</b>	Yes	<b>INGESTION:</b>	Yes
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<b>INGESTION:</b>	Low toxicity. Small amount swallowed incidental to normal handling operations are not likely to cause injury. If swallowed in large quantity may cause mild gastrointestinal discomfort.
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<b>INHALATION:</b>	Mildly irritating to nose, throat and respiratory tract & may cause coughing and sneezing.
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<b>EYE CONTACT:</b>	Not irritating to eyes.
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<b>SKIN CONTACT:</b>	Not likely to be skin irritant.
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<b>EFFECTS OF CHRONIC EXPOSURE:</b>	NAV
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<b>EXPOSURE STANDARDS:</b>	<u>ACGIH</u>	<u>OSHA</u>
	6 mg/m <sup>3</sup> STEL	10 mg/m <sup>3</sup> TWA
	2 mg/m <sup>3</sup> TLV-TWA	2 mg/m <sup>3</sup> TLV-TWA

<b>EPRODUCTIVE, TERATOGENICITY, EMBRYOTOXICITY, MUTAGENCY</b>	High doses feeding in rat, mouse and dogs, have demonstrated effects on fertility and testes. Studies in rat, mouse and rabbit, at high doses, showed developmental effects on the fetus, including fetal weight loss and minor skeletal variations. Normal humans would not be exposed to such high doses.
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<b>IRRITANCY:</b>	Yes	<b>SENSITIZATION:</b>	Yes
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<b>SYNERGISTIC MATERIALS:</b>	NAV
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## SECTION 7 – PREVENTIVE MEASURES

<b>PERSONAL PROTECTIVE EQUIPMENT:</b>	<p><b>Gloves:</b> Normally not required, but preferred.</p> <p><b>Eye Protection:</b> Chemical safety goggles.</p> <p><b>Foot Wear:</b> Impervious safety boots.</p> <p><b>Clothing:</b> Wear normal work coveralls.</p> <p><b>Respiratory protection:</b> Use NIOSH approved dust respirator.</p>
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<b>ENGINEERING CONTROLS:</b>	To control dust level localized ventilation should be used.
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<b>HANDLING PROCEDURES:</b>	To maintain package integrity and minimize caking of product. Bags should be handled on first-in first-out basis. Good house keeping is required.
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<b>STORAGE REQUIREMENTS:</b>	Dry to avoid tendency to cake. Keep containers tightly closed. Store in accordance with good industrial practices. Avoid moisture.
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<b>LEAK AND SPILL PROCEDURE:</b>	Vacuum the product and place in an appropriate closed container. Return all material to container for disposal. Prevent entry to watercourses or sewers.
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**WASTE DISPOSAL:** Dispose in compliance with government requirements and local disposal regulations. Do not dispose of wastw with normal garbage, or to sewer system.

## SECTION 8 – FIRST AID MEASURES

**INHALATION** Remove the victim into fresh air. If not breathing give artificial respiration. If breathing is difficult obtain medical attention immediately.

**SKIN CONTACT** Rinse affected area with water and soap, remove the victim's contaminated clothing. Obtain medical attention if irritation persists.

**EYE CONTACT** Flush eyes thoroughly for a minmum of 30 minutes. Obtain medical attention if irritation persists.

**INGESTION** Do not attempt to induce vomiting. Never give anything by mouth to unconscious victim. In case of spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus. Obtain medical attention.

## SECTION 9 – DEPARTMENT OF TRANSPORTATION

### SHIPPING INFORMATION

**US and Canada:** Not regulated

**International Shipping:** Not regulated

**TDG:** Not regulated.

**IATA:** Not regulated

## SECTION 10 – PREPARATION DATE OF MSDS

**PREPARED BY:** Agrisol Manufacturing Inc.

220 – 7565, 132 Street

Surrey, BC,

V3Z 1K7, Canada

### ADDITIONAL INFORMATION:

At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled from sources that are believed to be reliable.

**BUSINESS NUMBER:** 604-805-2417

**DATE:** October, 2015