

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **BORIC ACID 2%**
OTHER MEANS OF IDENTIFICATION: None
RECOMMENDED USE: Laboratory reagent
RESTRICTIONS ON USE: None
SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923
24 HR EMERGENCY PHONE NUMBER: 1-780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Reproductive Toxicity – Category 1B

LABEL SYMBOL:



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents and/or container in accordance with local regulations.

OTHER HAZARDS: Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Boric acid	10043-35-3	2% (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: If irritation occurs, before breaks and when shift ends wash with soap and water. If irritation develops and persists seek medical attention.

EYE CONTACT: Flush with gently flowing warm water until irritation ceases. If irritation persists seek medical attention.

INGESTION: No first aid required for ingestion of small quantities. If large amount is ingested, or symptoms develop, obtain medical attention.

INHALATION: Move to fresh air. If breathing difficulties continue, obtain medical attention.

MOST IMPORTANT SYMPTOMS /EFFECTS: No known acute health effects.

IMMEDIATE MEDICAL ATTENTION /
SPECIAL TREATMENT:

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable for packaging and surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	None. Product is noncombustible.
HAZARDOUS COMBUSTION PRODUCTS:	Not available.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Remove and thoroughly clean contaminated clothing before rewearing.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Soak up spilled material with absorbent. Collect contaminated absorbent for disposal. Wash spill area thoroughly with water and soap.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Practice reasonable caution and personal cleanliness. Launder contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Not applicable.
ENGINEERING CONTROLS:	Not required for normal conditions of use.
PERSONAL PROTECTIVE MEASURES	
RESPIRATORY PROTECTION:	Not required for normal conditions of use.
PROTECTIVE GLOVES:	Vinyl or rubber suggested.
EYE PROTECTION:	Safety glasses with side shields recommended.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eyewash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear colourless liquid
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	5.2
MELTING POINT / FREEZING POINT:	0°C
BOILING POINT / RANGE:	100°C

FLASH POINT:	Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not flammable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.03
SOLUBILITY:	Miscible with water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No known dangerous reactions under normal conditions of use.
CHEMICAL STABILITY:	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	None known.
CONDITIONS TO AVOID:	Not available.
INCOMPATIBLE MATERIALS:	Avoid contact with water reactive materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Not available.
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COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Boric acid	2660 mg/kg (rat)	>2000 mg/kg (rabbit)	>2120 mg/m ³ /4 hr (rat)

SKIN CONTACT:	No effects expected.
EYE CONTACT:	May cause slight transient irritation.
INGESTION:	Low oral toxicity. No effects expected.
INHALATION:	No effects expected for normal conditions of use.
CARCINOGENICITY:	Does not contain any known carcinogens.
TERATOGENICITY:	Boric acid causes developmental toxicity. Animal testing has shown decreased fetal weight and abnormalities in the absence of maternal toxicity.
REPRODUCTIVE TOXICITY:	Boric acid causes male reproductive toxicity. Animal studies have shown that short, intermediate and long-term exposure causes degeneration of the testes, decreased sperm development and decreased fertility. The effects are dose and duration related.
MUTAGENICITY:	Does not contain any known mutagens.
CHRONIC TOXICITY:	Long-term ingestion exposure to boric acid has caused dose-related harmful effects on the kidneys in rats exposed for 90 days to 100 mg/kg/day and higher, and decreased body weight gain in mice exposed to 300 mg/kg/day for 2 years.
TARGET ORGAN EFFECTS:	Kidney effects.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No information available.
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic substances.
BIOACCUMULATIVE POTENTIAL:	No information available.
MOBILITY IN SOIL:	No information available.
OTHER ADVERSE EFFECTS:	No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Triple rinse empty containers and dispose in general trash.

SECTION 14: TRANSPORTATION INFORMATION

TDG:	Not regulated
DOT:	Not regulated
IATA:	Not regulated
IMDG:	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are on the DSL.
WHMIS CLASS:	D2A
TSCA:	All components are listed on the inventory or are exempt.

SECTION 16: OTHER INFORMATION

REVISION DATE:	June 15, 2018
REPLACES:	None

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