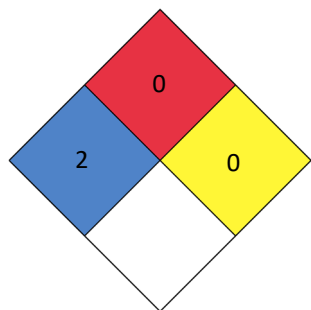


NFPA



HMIS

Health	/ 2
FLAMMABILITY	0
Physical Hazard	0
Personal Protection	C

## SAFETY DATA SHEET

# Boro-Pro<sup>®</sup>

Caution: HMIS<sup>®</sup> ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

<b>Product Name</b>	Boro-Pro <sup>®</sup>	<b>Product ID #</b>	025
<b>Manufacturer's Name</b>	Huma		
<b>Address:</b>	1331 W Houston Ave. Gilbert, AZ, US, 85233		
<b>Emergency Phone</b>	Chemtrec: (In the USA) 800-424-9300 (International) 703-527-3887		
<b>Information Phone #</b>	480-961-1220		
<b>Product Use</b>	Used as a part of a plant nutrition program.		

### SECTION 2) HAZARDS IDENTIFICATION

<b>Classification</b>	Acute toxicity Oral - Category 5 Eye Irritation - Category 2A Reproductive Toxicity - Category 1B Skin Irritation - Category 3 Acute aquatic toxicity - Category 3		
Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).			
<b>Pictograms</b>			
	<b>Signal Word</b>	Danger	
	<b>Hazardous Statements - Health</b>	H303 - May be harmful if swallowed H319 - Causes serious eye irritation H360 - May damage fertility or the unborn child H316 - Causes mild skin irritation	
	<b>Hazardous Statements - Environmental</b>	H402 - Harmful to aquatic life	
<b>Precautionary Statements – General</b>	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use.		
<b>Precautionary Statements – Prevention</b>	P273 - Avoid release to the environment. P264 - Wash thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection/face protection. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.		
<b>Precautionary Statements – Response</b>	P312 - Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention. P308 + P313 - IF exposed or concerned: Get medical advice/attention. P332 + P313 - If skin irritation occurs: Get medical advice/attention.		
<b>Precautionary Statements – Storage</b>	P405 - Store locked up.		
<b>Precautionary Statements – Disposal</b>	P501 - Dispose of contents/container in accordance with local/national/international regulations.		

### SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
10043-35-3	Boric Acid	35%-45%
10377-81-8	Monoethanolamine Borate	13%-19%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

## SECTION 4) FIRST-AID MEASURES

<b>Inhalation</b>	Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Get Medical advice/attention if you feel unwell. If exposed/If you feel unwell/If concerned: Call a POISON CENTER/doctor.
<b>Eye Contact</b>	If eye irritation persists: Get medical advice/attention. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face.
<b>Skin Contact</b>	If skin irritation occurs or you feel unwell: Get medical advice/attention. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes or until medical aid is available. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. If exposed/If you feel unwell/If concerned: Call a POISON CENTER/doctor.

**Most important symptoms and effects, both acute and delayed** No data available.

### Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

## SECTION 5) FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	Do not use straight stream of water
<b>Specific Hazards in Case of Fire</b>	Fire will produce irritating gases. Runoff may pollute waterways
<b>Precautions for Firefighters</b>	Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
<b>Special Protective Actions</b>	Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.
<b>Recommended Equipment</b>	Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA)
<b>Personal Precautions</b>	Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.
<b>Environmental Precautions</b>	Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Methods and Materials for Containment and Cleaning Up</b>	Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

## SECTION 7) HANDLING AND STORAGE

<b>General</b>	Wash hands after use. Avoid contact with skin, eye or clothing. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored.
<b>Ventilation Requirements</b>	Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.
<b>Storage Room Requirements</b>	Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eye Protection</b>	Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.
<b>Skin Protection</b>	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.
<b>Respiratory Protection</b>	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.
<b>Appropriate Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH TWA (mg/m <sup>3</sup> )	ACGIH TWA (ppm)	ACGIH STEL (mg/m <sup>3</sup> )	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
Boric Acid	2 (l)		6 (l)		A4	URT irr	A4
Chemical Name	OSHA TWA (mg/m <sup>3</sup> )	OSHA TWA (ppm)	OSHA STEL (mg/m <sup>3</sup> )	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)
Boric Acid							

(l) - Inhalable fraction, A4 - Not Classifiable as a Human Carcinogen, irr - Irritation, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slightly hazy, medium to dark amber	<b>Bulk Density (pounds/ft<sup>3</sup>):</b>	N/A
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Unique, characteristic	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Molecular Formula:</b>	Mixture	<b>VOC Content:</b>	No data available
<b>Boiling Point:</b>	Greater than 100° C. (212° F.)	<b>Water Solubility:</b>	Complete
<b>Freezing/Melting Point:</b>	Less than 0° C. (32° F.)	<b>pH (as is):</b>	7.0-8.0
<b>Specific Gravity:</b>	1.31	<b>Density (pounds/gallon):</b>	10.93

## SECTION 10) STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions/Polymerization</b>	Will not occur.
<b>Conditions to Avoid</b>	Avoid heat, sparks, flame, high temperature and contact with incompatible materials.
<b>Incompatible Materials</b>	Strong bases, acids, and oxidizing agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon

## SECTION 11) TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	May be harmful if swallowed The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is 3636.36 mg/kg body weight The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l Based on available data, the classification criteria are not met.
<b>Aspiration Hazard</b>	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child.
<b>Respiratory/Skin Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation
<b>Skin Corrosion/Irritation</b>	Causes mild skin irritation
<b>Specific Target Organ Toxicity – Repeated Exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity – Single Exposure</b>	Based on available data, the classification criteria are not met.
<b>Likely Routes of Exposure</b>	Inhalation, Ingestion, Skin contact, Eye contact
<b>Chronic Exposure</b>	Based on available data, the classification criteria are not met.
<b>Potential Health Effects - Miscellaneous</b>	Based on available data, the classification criteria are not met.

## SECTION 12) ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Harmful to aquatic life
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulative Potential</b>	No data available.
<b>Mobility in Soil</b>	No data available.
<b>Other Adverse Effects</b>	No data available.

## SECTION 13) DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes..
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## SECTION 14) TRANSPORT INFORMATION

	U.S. DOT Info	IMDG Info	IATA Info
<b>UN Number</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN Proper Shipping Name</b>	N/A	N/A	N/A
<b>Transport Hazard Class</b>	Not Applicable	Not Applicable	Not Applicable
<b>Packing Group</b>	Not Applicable	Not Applicable	Not Applicable
<b>Hazardous Substance (RQ)</b>	Not Applicable	Not Applicable	Not Applicable
<b>Environmental Hazards</b>	No Data Available	No Data Available	No Data Available
<b>Special Precautions for User</b>	No Data Available	No Data Available	No Data Available
<b>Transport in bulk according to Annex II of MARPOL and the IBC code</b>	No Data Available	No Data Available	No Data Available

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
10043-35-3	Boric Acid	35%-45%	SARA312, TSCA - Toxic Substances Control Act (TSCA)
10377-81-8	Monoethanolamine Borate	13%-19%	SARA312, TSCA - Toxic Substances Control Act (TSCA)

Product does not contain any chemicals listed under California Proposition 65

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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