Plant-Prod 22-4-22

SAFETY DATA SHEET

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Plant-Prod 22-4-22
Product number	12900
Brand	Plant-Prod

1.3 Recommended use of the chemical and restrictions on use

Water Soluble Fertilizer for Plants.

1.4 Supplier's details

Name	Master Plant-Prod Inc.
Address	314 Orenda Rd. Brampton ON L6T 1G1 Canada
Telephone	905-793-8000
email	mppi@plantprod.com

1.5 Emergency phone number

905-793-8000
FOR EMERGENCIES INVOLVING DANGEROUS GOODS Call CANUTEC's 24-Hour Number 1-888-CANUTEC (226-8832) (North American use) and/or 1-613-996-6666 (International use)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: WHMIS as amended (12.15.2022)

- Toxic to reproduction, Cat. 1

2.2 GHS label elements, including precautionary statements

Pictograms

Signal word **Danger**

Hazard statement(s)

H360	May damage fertility or the unborn child [effect, route]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Component	CAS no.	Concentration
Potassium Nitrate	**7757-79-1**	**43 % (weight)**
Boric acid	**10043-35-3**	**< 0.9 % (weight)**

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Move to fresh air. Get medical advice or attention if you feel unwell or are concerned. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.
In case of skin contact	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use flooding quantities of water spray or fog.
DO NOT use water jet.

5.2 Specific hazards arising from the chemical
Does not burn. Mild oxidizer. May intensify fire.
In a fire, the following hazardous materials may be generated: magnesium oxides, sulphur oxides, metal oxides, nitrogen oxides, phosphorus oxides, potassium oxides.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove or isolate incompatible materials as well as other hazardous materials. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Ensure adequate ventilation. Avoid formation and inhalation of dust.

6.2 Environmental precautions
Do not allow into any sewer or drain, on the ground or into any waterway.

6.3 Methods and materials for containment and cleaning up
Contain the spill. Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Avoid contact with combustibles, organics and ignition sources. Review Section 13 (Disposal Considerations) of this safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not breathe in this product. Avoid repeated or prolonged skin contact. Do not get in eyes. Only use where there is adequate ventilation. Avoid exposure during pregnancy and while nursing. Avoid release to the environment. Prevent accidental contact with incompatible chemicals.

7.2 Conditions for safe storage, including any incompatibilities
Store in an area that is: cool, dry, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity), well-ventilated. Keep out of reach of children. Reseal partial bag prior to storage.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Boric acid (CAS: 10043-35-3 EC: 233-139-2)

TWA (Inhalation): 2 mg/m3 8 hours; USA (ACGIH TLV)

STEL (Inhalation): 6 mg/m3 15 min; USA (ACGIH TLV)

8.2 Appropriate engineering controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

When handling dry concentrated product: wear protective safety glasses. When handling dissolved product: wear chemical safety goggles.

Skin protection

Protect exposed skin using insulated gloves suitable for low temperatures, long sleeves, protective apron and trousers worn outside boots or over shoes.

Respiratory protection

Use an appropriate NIOSH approved particulate respirator. Monitor dust levels within working area and ensure adequate ventilation.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Powder.
Color	Blue.
Odor	Slight ammonia odour.
Odor threshold	Not applicable
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	Not available
Flammability	Not available
Lower and upper explosion limit/flammability limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Kinematic viscosity	
Solubility	Not available
Partition coefficient n-octanol/water (log value)	Not available
Vapor pressure	Not available
Evaporation rate	Not available
Density and/or relative density	Not available
Relative vapor density	Not available
Particle characteristics	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity
Not reactive under normal conditions of use. May intensify fire.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
None expected under normal conditions of storage and use.

10.4 Conditions to avoid
Heat. Open flames, sparks, static discharge, heat and other ignition sources. Water, moisture or humidity.

10.5 Incompatible materials
Strong acids, strong alkaloids, oxidizers, organics.

Boric acid: Potassium, Acid anhydrides

10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Review Section 5 (Specific Hazards Arising from the Product) for hazardous materials generated in a fire.

Boric acid: Hazardous decomposition products formed under fire conditions. - Borane/boron oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation
Repeated or prolonged exposure can irritate or burn the skin.

Serious eye damage/irritation
Irritation or burn could occur if fertilizer solution is splashed in eyes or dry product contacted.

Respiratory or skin sensitization
Very low vapour activity. At high concentrations may cause nose and throat irritation, lung injury.

Carcinogenicity
Nitrilotriacetic Acid (NTA) and its salts were determined to be "possibly carcinogenic to humans" by IARC, a compound which "may reasonably be anticipated to be a carcinogen" by NTP and a "select carcinogen" by OSHA.

Reproductive toxicity

Boric acid may cause birth defects and may impair male fertility, based on animal data.

Specific target organ toxicity (STOT) - repeated exposure

Potassium Nitrate: May cause damage to organs through prolonged or repeated exposure

SECTION 12: Ecological information

Toxicity
No data available on product.

Persistence and degradability
No data available on product.

Bioaccumulative potential
No data available on product.

Mobility in soil
No data available on product.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)
Chemical name: Boric acid (H3BO3)
CAS number: 10043-35-3

Canadian Domestic Substances List (DSL)
Chemical name: Boric acid
CAS number: 11113-50-1

SECTION 16: Other information

16.1 Further information/disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither Master Plant-Prod Inc., nor any of its distributors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of any product is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

16.2 Preparation information

Prepared By MPPI Technical Department. Phone No. 905-793-8000

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