

Hydro Masta Pty Ltd
A.B.N. 36 079 066 916

Safety data sheet for Hydro Masta Pty Ltd Liquid Science Grow Production Pack 5kg & 20kg

1. Identification

Product Name: Liquid Science Grow Production Pack 5kg and 20kg
Company: Hydro Masta Pty Ltd
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2. Hazard(s) Identification

Physical state: Twin pack solid powder and granulate composition.

Emergency overview: **WARNING! Contains strong oxidizer.** Contact with other material may cause fire.
Contact with organic material may cause fire.
Harmful if swallowed, inhaled or absorbed through skin.

Potential Health Effects

Eye contact: May cause irritation.

Skin contact: May cause irritation.

Ingestion: May be harmful if swallowed. Large doses may cause dizziness, abdominal pain, vomiting.

Inhalation: Possible cause irritation and burns to respiratory system.

3. Composition and Information on Ingredients

Powder Plant Fertiliser:

Chemical Name	CAS	Concentration (%W/W)
Calcium nitrate	13477-34-4	30-40%
Potassium nitrate	7757-79-1	20-30%
Potassium phosphate	7778-77-0	10-20%
Magnesium sulphate	10034-99-8	10-20%
Ammonium Nitrate	6484-52-2	<5%
Iron (as EDTA)	N/A	<2%
Manganese (as EDTA)	N/A	<1%
Copper (as EDTA)	N/A	<0.1%
Zinc (as EDTA)	N/A	<0.1%
Boron	N/A	<0.1%
Molybdenum	N/A	<0.1%

All constituents are listed in the Australian Inventory of Chemical Substances (AICS).

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4. First Aid Measures

- Swallowed:** Wash out mouth thoroughly with water. Never give anything by mouth to unconscious person. In severe cases obtain medical attention.
- Eye:** If this product comes in contact with eyes, check and remove any contact lens. Do not try to remove contact lenses unless trained. Hold eye open and gently wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Seek medical attention.
- Skin contact:** Wash off thoroughly with soap and water. Remove clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. Get medical attention if symptoms occur.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention.
- Advice to doctors:** Treat symptomatically.
- First aid facilities:** No information.
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5. Fire Fighting Measures

- Fire / Flammability:** This product is not combustible, but contains a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Use fire-fighting agent appropriate for materials burning in the area.
- Explosion:** This product contains some nitrates, which may explode when shocked, exposed to heat or flame, or by spontaneous chemical reaction. Sealed containers may rupture when heated.
- Fire fighting:** Dry chemical, carbon dioxide, Halon, water spray, or fog. If water is used, apply from as far a distance as possible. Water spray may be used to keep fire-exposed containers cool. Do not allow water runoff to enter sewers or waterways. Use fire-fighting agent appropriate for materials burning in the area.
- Special Information:** Wear full protective clothing and breathing equipment for high-intensity fire or potential explosion conditions. This oxidizing material can increase flammability of adjacent combustible materials.
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6. Accidental Release Measures

- Spills:** Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal equipment as specified in section 8.
- Will promote algae growth and therefore should be prevented from entering rivers, canals and other waterways.* Stop leak if safe to do so and contain spill. Absorb into vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage. Recycle containers wherever possible. After spill wash area, prevent runoff from entering drains. If material enters drains dilute with excess water. Dispose only in compliance with local regulations. Launder all contaminated clothing before reuse.
- Disposal:** Refer to local waste management authority.

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7. Handling and Storage

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Thoroughly wash hands after handling.

Storage: Always store in original container. Containers should be kept closed to minimize contamination. Isolate from any source of heat or ignition. Separate from incompatibles, combustibles and organic or other readily oxidisable materials. To preserve integrity of product, store in a cool, dark place.

8. Exposure controls/personal protection

Not a hazard in normal use.

Remove contaminated clothing promptly. Discard or launder clothing before reuse. After handling this material, wash hands thoroughly.

Airborne exposure limits: None established.

Ventilation system: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal respirators: For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye protection: Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Consult local authorities for acceptable exposure limits.

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9. Physical and Chemical Properties

Appearance:	Solid crystalline powder and granulate mixture.
Colour:	Mainly white with tan and blue tint.
Odour:	Odourless
Vapour pressure:	Unknown
Flash point:	Not flammable
Flammability limits:	Not flammable
Solubility in water:	Soluble in all proportions.
Corrosiveness:	Corrosive with extended exposure to metals.

10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Hazardous decomposition products:	Oxides of nitrogen and toxic metal fumes may form when heated to decomposition.
Hazardous polymerization:	Will not occur.
Incompatibilities:	Heavy metals, phosphites, organic compounds, carbonaceous materials, strong acids, and many other substances. Contains chemicals that are strong oxidizing agents that react with reducing materials, oils and solvents.
Conditions to avoid:	Heat, flames, ignition sources and incompatibles.

11. Toxicology Information

Swallowed:	Discomfort from swallowing large amounts.
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhaled:	Not applicable

12. Ecological Information

Will promote algae growth therefore prevent from entering rivers, canals and other waterways.

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13. Disposal Considerations

Observe local legislation.

14. Transport Information

Proper Shipping Name: None

Commercial Name: Accent Hydroponics Culture-S Formula 20kg

Hazard class: Class 9 and contains some class 5.1 ingredients. To be treated as class 5.1 for transport purposes.

15. Regulatory Information

EPA regulations: Not listed

EEC hazard classification: Unknown

Safety phrases: Nil.

Risk Phrases: Nil.

16. Other Information

No further information

Manufacture's Advice and Disclaimer

This Safety Data Sheet (SDS) summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. All information is as accurate and up to date as possible. This company will not take responsibility for any deliberate miss-use of the product or negligence related to this literature.