

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Hydroponics Solution Concentrate, 25mL
CAS number See Section 3
Synonyms No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
 12501 Pauls Valley Road
 Austin, Texas 78737
 U.S.A.
Telephone 512-668-9918
Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS). The product contains no substances which at their given concentration, are considered to be hazardous to health.

2.2 GHS Label elements, including precautionary statements

Pictogram Not listed.

Signal Word Not listed.

Hazard statements Not listed.

Precautionary statements Not listed.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Potassium Nitrate	No information available	7757-79-1	30-60%
Monopotassium Phosphate	No information available	7778-77-0	20-30%
Magnesium Sulfate	No information available	10034-99-8	30-40%
Manganese EDTA 13%	No information available	15375-84-5	0.1-0.5%
Sodium Borate	No information available	12280-03-4	0.1-0.5%
Copper Sulfate	No information available	7758-99-8	0.1-0.5%
Zinc Sulfate 36%	No information available	7446-19-7	0.1-0.5%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

In case of skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Dust at sufficient concentrations may form explosive mixtures with air.

5.3 Special protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

NFPA

Health	Flammability	Instability	Physical hazards
1	0	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Vacuum or sweep up material and place in a disposal container. Take up mechanically and collect in suitable container for disposal.

6.4 Reference to other sections

No information available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing.

Hygiene measures

Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool, dry area away from incompatible materials and heat sources.

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Copper Sulfate	Not Listed	1 mg/m ³

US. ACGIH Threshold Limit Values

Component	Type	Value
Sodium Borate	Not Listed	2 mg/m ³
Copper Sulfate	Not Listed	1 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal protective equipment

Eye/face protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.

Skin protection

No special protective clothing is required under normal workplace conditions. If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible.

Body Protection

No special protective clothing is required under normal workplace conditions.

Respiratory protection

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White crystals
Odor	Fertilizer
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No information available
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	Bulk Density; 55-75 lbs/cu.ft.
Solubility	Highly soluble (>80%)

Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Oxidizing properties	Not considered an oxidizer

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Poses little or no immediate hazard.

10.4 Conditions to avoid

Extreme heat. Damp or wet conditions. Dust may form explosive mixture in air.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Nitrate	3015 mg/kg (Rat)	> 2000 mg/kg	> 527 mg/m ³
Sodium Borate	2550 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>0.16 mg/L (Rat)4h
Copper Sulfate	352 mg/kg (Rat)	> 5050 mg/kg (Rabbit)	Not listed

Skin corrosion/irritation

May cause skin irritation in susceptible persons

Serious eye damage/eye irritation

May cause eye irritation with susceptible persons

Respiratory or skin sensitization

May cause sensitization of susceptible persons

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

Reproductive toxicity

No information available.

Chronic effects

Chronic exposure to nitrates may cause weakness, depression, headache, blood changes (anemia and methemoglobinemia), and kidney injury (nephritis)

11.2 Additional Information

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of respiratory tract.

SECTION 12: Ecological information**12.1 Toxicity**

0.32 of the mixture consists of component(s) of unknown hazards to the aquatic environment. May be toxic to aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to lakes, streams, or ponds.

12.2 Persistence and degradability

Degrades slowly.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Component	LOG POW
Sodium Borate	-0.757 (based on Boric Acid)

Water contaminating.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container.

SECTION 14: Transport information

DOT (US) Not DOT regulated

IMDG Not regulated

IATA Not regulated

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
No information available.

CERCLA Hazardous Substance List (40 CFR 302.4)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 304 Emergency release notification

No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

No information available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous

Acute health hazard No

Chronic Health Hazard No

Fire hazard No

Sudden release of pressure hazard No

Reactive Hazard No

SARA 313 (TRI reporting)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No information available.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available.

Safe Drinking Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available.

US state regulations

US. Massachusetts RTK - Substance List

No information available.

US. New Jersey Worker and Community Right-to-Know Act

No information available.

US. Pennsylvania Worker and Community Right-to-Know Law

No information available.

California Proposition 65

No information available.

SECTION 16: Other information

Date of Issue: 12/30/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.