

# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	DKW Basal Medium with Vitamins
PRODUCT NUMBER:	D2470
COMPANY INFO:	PhytoTech Labs Inc. 14610 W 106 <sup>th</sup> St. Lenexa, KS 66215 Phone: 1-888-749-8682 or 1-913-341-5343 www.phytotechlab.com
EMERGENCY PHONE NUN (INFOTRAC):	ABER         1-800-535-5053 - US Only           1-352-323-3500 - International
RECOMMENDED USE:	For Laboratory-use or Further Manufacture only
RESTRICTIONS ON USE:	Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, in vitro diagnostics, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture:

GHS Classification:

H272 – Oxidizing solids (Category 3) H315 – Skin irritation (Category 2) H319 – Eye irritation (Category 2A)

#### GHS Label elements, including hazard and precautionary statements:



Hazard Statements:

- H272 May intensify fire; oxidizer.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Signal Word: Warning

Precautionary Statements:

P210 - Keep away from heat
P220 – Store away from combustible materials
P221 – Take any precaution to avoid mixing with combustibles.
P261 – Avoid breathing dust
P280 – Wear protective clothing/protective gloves/eye protection.
P302 + P352 + IF ON SKIN: Wash with plenty of soap and water
P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get Medical attention 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.

#### Hazards not otherwise classified (HNOC) or not covered by GHS: - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture that contains, but is not limited to, the following components that may cause harm to the user or environment or may be suspected to do so:

Ingredient	CAS Number	Percent	Hazardous
Ammonium Nitrate	6484-52-2	26.61%	No exposure limits established by OSHA or ACGIH
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.85%	No exposure limits established by OSHA or ACGIH
Zinc Nitrate, Hexahydrate	10196-18-6	0.32%	No exposure limits established by OSHA or ACGIH
Calcium Nitrate	10124-37-5	25.69%	No exposure limits established by OSHA or ACGIH
Cupric Sulfate, Pentahydrate	7758-99-8	0.0047%	NIOSH REL: 1 mg/m3
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.0073%	OSHA PEL: 1 mg (Mo)/m <sup>3</sup> ; ACGIH TLV: 0.1 mg (Mo)/m <sup>3</sup>
Manganese Sulfate, Monohydrate	10034-96-5	0.63%	OSHA PEL: 5 mg (Mn)/m3; ACGIH TLV: 0.2 mg (Mn)/m3
Nickel Sulfate, Hexahydrate	10101-97-0	0.000094%	OSHA PEL: 1 mg (Ni)/m <sup>3</sup> ; ACGIH TLV: 0.1 mg (Ni)/m <sup>3</sup>
Boric Acid	10043-35-3	0.09%	No exposure limits established by OSHA or ACGIH

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **Route of Entry First Aid Procedures Symptoms** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Eye Contact Flush immediately with large amounts of water for at least 15 Direct contact may cause irritation. May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation. persists. Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	No data available.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

#### 7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture. Product is hygroscopic.
Incompatibilities:	Strong oxidizing agent
Recommended Storage Temperature:	2-8°C

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):		(PELs): Manganese Sulfate, Monohydrate : 5 mg (Mn)/m <sup>3</sup> Sodium Molybdate(VI), Dihydrate: 1 mg (Mo)/m <sup>3</sup> Nickel Sulfate, Hexahydrate: 1 mg (Ni)/m <sup>3</sup>	
ACGIH Threshold Limit Values (TLVs):		Vs): Sodium Molybdate(VI), Dihydrate: 0.1 mg (Mo)/m <sup>3</sup> Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m <sup>3</sup> Nickel Sulfate, Hexahydrate: 0.1 mg (Ni)/m <sup>3</sup>	
Engineering	g Controls:	Handle in accordance to general industrial hygiene and safety practice.	
Personal Protective Equipment (PPE):			
	Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.	
	Skin Protection:	Protective gloves	
	Body Protection:	Lab coat	
	Respiratory Protection:	Respiratory protection is not required. Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white		to yellow powder	
pH (5.32 g/L): No dat		a available	
Solubility:	Soluble in	Water	
Melting Range:	No data av	vailable	
Vapor Density:	No data av	vailable	
Vapor Pressure:	No data av	vailable	
Specific Gravity:	No data av	vailable	
Odor:	Odorless		
Odor Threshold:	No data av	vailable	
Viscosity:	Viscosity: No data av		
Relative Density: No data av		vailable	
Evaporation Rate:		No data available	
Initial Boiling Point and Boiling Range:		No data available	
Flammability (solid, gas):		No data available	
Partition coefficient: n-octanol/water):		No data available	
Auto-ignition Temperature:		No data available	
Decomposition Temperature:		No data available	
Flash Point (Closed Cup):		No data available	

# **10. STABILITY AND REACTIVITY**

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	No data available
Conditions to Avoid:	No data available
Incompatibles Materials:	Reducing agents, Strong acids, powdered metal
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Nickel oxides, Molybdenum oxides, Copper oxides

### 11. TOXICOLOGICAL INFORMATION

Toxicity:	LD <sub>50</sub> (Oral-Rat)(mg/Kg):		No data available	
	LD <sub>50</sub> (Oral-Mouse)(mg/Kg):		(g):	No data available
	LD <sub>50</sub> (Dermal-H	Rabbit)(m	g/Kg):	No data available
Carcinogenicity:	NTP:	No		
	IARC:	No		
	OSHA Reg:	No		
Reproductive Toxicity:	No data availab	le		
Specific Target Organ	Single Exposure	e:	No data	available
Toxicity:	Repeated Exposure: No data a		available	
Target Organs:	None identified			
Medical Conditions Aggravated By Exposure:	None identified			
Routes of Entry:	Inhalation, Ingestion, skin and eye contact			
NIOSH/RTECS NO:	Not listed			

# The toxicological properties of this product have not been thoroughly investigated

# 12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

### 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

# 14. TRANSPORT INFORMATION

Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class:	N/A
UN/NA:	N/A
Labels:	N/A
	Hazard Class: UN/NA:

International:

IMDG:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)		
	Hazard Class:	N/A		
	UN/NA:	N/A		
	Labels:	N/A		
IATA:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-R	EGULATED)	
	Hazard Class:	N/A		
	UN/NA:	N/A		
	Labels:	N/A		
15. REGULATORY	INFORMATION			
TSCA:		No		
SARA TITLE III:				
Section 302 (EHS	3) Ingredients:	No		
Section 313 Ingre	dients:			
CAS No. Ammonium Nitrate 6484-52-2				
Section 304 (EHS/CERCLA) Ingredients:		No		
Section 311/312 Hazard:		Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard		
California Proposition 65 List:		This product contains Nickel which is known to the State of California to cause cancer, birth defects, or other reproductive harm.		
Massachusetts Right To Know Components:		Compound Cupric Sulfate	CAS No. 7758-98-7	
New Jersey Right to	Know Components:	Compound Ammonium Nitrate Calcium Nitrate Nickel Sulfate, hexahydrate Cupric Sulfate	CAS No. 6484-52-2 10124-37-5 10101-97-0 7758-98-7	
Pennsylvania Right to Know Components:		Compound	CAS No.	
		Ammonium Nitrate Ferrous Sulfate	6484-52-2 7782-63-0	
16. OTHER INFOR	MATION			

#### OTHER INFORMATION

HMIS Rating:	Health Hazard	Flammability	Physical Hazard	<b>Personal Protection</b>
	2	0	2	В
NFPA Rating:	Health Hazard	Fire Hazard	Instability	Special Hazard
	2	0	2	OX

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