SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Picloram

PRODUCT NUMBER: P717

COMPANY INFO: PhytoTech Labs Inc.
14610 W 106th St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Laboratory use or Further Manufacturing 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:

H319 – Eye irritation (Category 2A)
H402 – Acute aquatic toxicity (Category 3)
H412 – Chronic aquatic toxicity (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram: 

Signal Word: Warning

Hazard Statements:

H319 – Causes serious eye irritation.
H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 4-Amino-3,5,6-trichloropicolinic Acid

CAS No: 1918-02-1

Formula: $C_6H_3Cl_3N_2O_2$

Molecular Weight: 241.46

EC No.: 217-636-1

Ingredient	CAS Number	Percent	Hazardous
Picloram	1918-02-1	>93%	ACGIH TLV: 10 mg/m^3; OSHA OEL: 15 mg/m^3

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 **Symptoms** **First Aid Procedures**

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 tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation persists.**
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation 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:	May emit toxic fumes under fire conditions. Buildup of dust may be combustible.
Toxic Gases Produced:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, 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. Discharge into the environment must be avoided.
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. Do not breathe dust. Provide adequate exhaust ventilation at places where dust is formed. 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.
Recommended Storage Temperature:	Room Temperature
Incompatibilities:	Strong oxidizing agents, strong bases, steel, strong acids, acid chlorides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Occupational Exposure Limits:	15 mg/m^3
ACGIH's Threshold Limit Values (TLVs):	No data available
Engineering 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:	Wear appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white to beige powder
pH (0.001 g/L):	Under Development (4.75-5.75 suspected range) (solvent dependent)
Solubility:	Very slightly soluble in water; More soluble in DMSO
Melting Range:	218-219°C; Dec starts at 190°C
Vapor Density:	No data available
Vapor Pressure:	No data available
Specific Gravity:	No data available
Odor:	May have characteristic odor
Odor Threshold:	No data available
Viscosity:	No data available
Relative Density:	No data available
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
Flammable Limits:	Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur
Conditions to Avoid:	Dust generation, flames, ignition source, light
Incompatibles Materials:	Strong oxidizing agents, strong bases, steel, strong acids, acid chlorides
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD_{50} (Oral-Rat) (mg/Kg):	4200
	LD_{50} (Skin-Rabbit) (mg/Kg):	>4000
	LD_{50} (Oral-Rabbit) (mg/Kg):	2000
Carcinogenicity:	NTP:	No
	IARC:	Group 3
	Z List:	No
	OSHA Reg:	No

Reproductive Toxicity:	No data available	
Symptoms Associated with Overexposure:	Irritation, itching, gastrointestinal upset, nausea, vomiting, headache, burning sensation, coughing, liver or kidney impairment, possible mutagenic and reproductive effects, cancers, breathing difficulties.	
Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available
Target Organs:	Liver, kidneys, endocrine system	
Medical Conditions Aggravated by Exposure:	Pre-existing conditions	
Routes of Entry:	Ingestion, inhalation, skin and eye contact	
NIOSH/RTECS NO:	TJ7525000	

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC50 – water flea – 34.4 mg/L – 48 hrs
Persistence and Degradability:	No data available
Bioaccumulative Potential:	Bioconcentration factor (BCF): 0.15
Mobility in Soil:	No data available
Other Adverse Effects:	Harmful to aquatic life

13. DISPOSAL CONSIDERATION

Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental regulations.
EPA Hazardous Waste Number:	No data available

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

TSCA:	No
SARA TITLE III:	

Section 302 (EHS) Ingredients:	No
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredients:	No
Section 311/312 Hazard:	Acute Health Hazard
Massachusetts Right to Know Components:	CAS No.: 1918-02-1 4-Amino-3,5,6-trichloropyridine-2-carboxylic acid
Pennsylvania Right to Know Components:	CAS No.: 1918-02-1 4-Amino-3,5,6-trichloropyridine-2-carboxylic acid
New Jersey Right to Know Components:	CAS No.: 1918-02-1 4-Amino-3,5,6-trichloropyridine-2-carboxylic acid
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	**Health Hazard**	**Flammability**	**Physical Hazard**	**Personal Protection**
	2	0	0	B
NFPA Rating:	**Health Hazard**	**Fire Hazard**	**Instability**	**Special Hazard**
	2	0	0	

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